

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-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	104	107	109	109
Total Lumens, 4' rail length (1219mm)	5403	5574	5688	5688
Lumens per foot (305mm)	1351	1393	1422	1422
Lumens per foot UP (305mm)	931	960	980	980
Lumens per foot DOWN (305mm)	420	433	442	442
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.



IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_CC_SO_35_U1S1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L121911546 (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-AL
[LUMINAIRE] ZipThree LED Suspended, 48", 3500K, 80 CRI, zipper board, symmetric lens up/40° 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	5688
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
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	2288	3948	7286
55	1572	2485	4966
65	1273	1801	3499
75	1049	1340	2515
85	662	832	1439

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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>
0.0	1374.60	1374.60	1374.60	1374.60	1374.60	1374.60	1374.60	1374.60	1374.60	1374.60
1.0	1374.60	1374.60	1374.60	1374.60	1374.60	1374.60	1374.60	1374.60	1374.60	1374.60
3.0	1367.64	1367.64	1367.64	1367.64	1367.64	1368.80	1368.80	1368.80	1369.96	1369.96
5.0	1349.08	1349.08	1350.24	1350.24	1351.40	1352.56	1353.72	1356.04	1357.20	1359.52
7.0	1318.92	1318.92	1320.08	1321.24	1323.56	1325.88	1329.36	1331.68	1335.16	1339.80
9.0	1278.32	1278.32	1280.64	1282.96	1286.44	1291.08	1295.72	1301.52	1307.32	1313.12
11.0	1227.28	1228.44	1230.76	1234.24	1240.04	1245.84	1253.96	1262.08	1271.36	1280.64
13.0	1165.80	1166.96	1170.44	1176.24	1184.36	1193.64	1204.08	1215.68	1227.28	1240.04
15.0	1097.36	1098.52	1103.16	1110.12	1119.40	1132.16	1146.08	1161.16	1177.40	1194.80
17.0	1019.64	1021.96	1027.76	1037.04	1048.64	1063.72	1081.12	1099.68	1120.56	1141.44
19.5	916.40	918.72	925.68	936.12	951.20	970.92	991.80	1016.16	1041.68	1068.36
22.5	786.48	788.80	796.92	809.68	828.24	850.28	876.96	905.96	937.28	970.92
25.5	657.72	661.20	669.32	683.24	704.12	728.48	757.48	791.12	828.24	865.36
29.0	519.68	522.00	531.28	545.20	566.08	591.60	622.92	657.72	697.16	740.08
33.0	387.44	390.92	399.04	411.80	430.36	453.56	482.56	517.36	556.80	598.56
37.5	277.24	278.40	285.36	295.80	310.88	330.60	354.96	385.12	419.92	457.04
42.5	193.72	194.88	199.52	207.64	218.08	233.16	251.72	273.76	300.44	330.60
47.5	141.52	142.68	145.00	150.80	157.76	168.20	180.96	197.20	215.76	237.80
55.0	96.28	96.28	97.44	100.92	104.40	110.20	117.16	125.28	136.88	148.48
65.0	60.32	60.32	61.48	61.48	63.80	66.12	68.44	71.92	76.56	82.36
75.0	33.64	33.64	33.64	34.80	34.80	35.96	35.96	37.12	39.44	40.60
85.0	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44	11.60
90.0	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48
95.0	35.96	35.96	35.96	35.96	35.96	35.96	35.96	35.96	35.96	35.96
100.0	83.52	83.52	84.68	85.84	87.00	88.16	90.48	92.80	96.28	98.60
105.0	157.76	157.76	158.92	161.24	163.56	167.04	170.52	174.00	177.48	182.12
110.0	250.56	251.72	252.88	255.20	258.68	262.16	266.80	271.44	276.08	280.72
115.0	361.92	361.92	364.24	366.56	370.04	374.68	379.32	385.12	392.08	399.04
120.0	489.52	489.52	491.84	495.32	499.96	504.60	511.56	519.68	526.64	533.60
125.0	635.68	635.68	638.00	641.48	646.12	650.76	656.56	663.52	669.32	675.12
130.0	786.48	787.64	788.80	791.12	794.60	798.08	802.72	808.52	814.32	818.96
135.0	931.48	931.48	932.64	934.96	937.28	940.76	945.40	948.88	953.52	959.32
140.0	1063.72	1063.72	1064.88	1066.04	1068.36	1071.84	1075.32	1078.80	1082.28	1086.92
145.0	1180.88	1180.88	1182.04	1183.20	1184.36	1186.68	1189.00	1192.48	1194.80	1197.12
150.0	1280.64	1280.64	1280.64	1281.80	1282.96	1284.12	1285.28	1287.60	1288.76	1289.92
155.0	1361.84	1361.84	1361.84	1361.84	1363.00	1363.00	1364.16	1365.32	1365.32	1366.48
160.0	1423.32	1423.32	1423.32	1424.48	1423.32	1424.48	1424.48	1424.48	1424.48	1424.48
165.0	1469.72	1469.72	1469.72	1469.72	1469.72	1469.72	1469.72	1469.72	1469.72	1469.72
170.0	1499.88	1501.04	1501.04	1501.04	1501.04	1499.88	1501.04	1501.04	1501.04	1501.04
175.0	1518.44	1518.44	1518.44	1518.44	1518.44	1518.44	1518.44	1518.44	1518.44	1518.44
180.0	1523.08	1523.08	1523.08	1523.08	1523.08	1523.08	1523.08	1523.08	1523.08	1523.08

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>
0.0	1374.60	1374.60	1374.60	1374.60	1374.60	1374.60	1374.60	1374.60	1374.60
1.0	1374.60	1374.60	1374.60	1374.60	1374.60	1374.60	1374.60	1374.60	1374.60
3.0	1371.12	1371.12	1371.12	1372.28	1372.28	1372.28	1372.28	1373.44	1373.44
5.0	1360.68	1361.84	1364.16	1364.16	1366.48	1366.48	1367.64	1367.64	1368.80
7.0	1343.28	1346.76	1349.08	1352.56	1354.88	1357.20	1358.36	1358.36	1359.52
9.0	1318.92	1324.72	1330.52	1335.16	1339.80	1343.28	1345.60	1347.92	1347.92
11.0	1289.92	1298.04	1306.16	1314.28	1320.08	1325.88	1329.36	1331.68	1332.84
13.0	1252.80	1265.56	1277.16	1287.60	1296.88	1303.84	1309.64	1313.12	1314.28
15.0	1211.04	1227.28	1243.52	1256.28	1269.04	1278.32	1285.28	1289.92	1291.08

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CANDELA TABULATION - (Cont.)

17.0	1163.48	1184.36	1202.92	1220.32	1235.40	1248.16	1257.44	1262.08	1264.40
19.5	1096.20	1121.72	1146.08	1169.28	1187.84	1202.92	1214.52	1221.48	1223.80
22.5	1004.56	1037.04	1068.36	1096.20	1120.56	1139.12	1154.20	1162.32	1165.80
25.5	905.96	944.24	979.04	1012.68	1040.52	1063.72	1081.12	1091.56	1093.88
29.0	783.00	825.92	866.52	904.80	937.28	963.96	983.68	995.28	998.76
33.0	644.96	689.04	733.12	772.56	807.36	837.52	858.40	871.16	874.64
37.5	499.96	541.72	584.64	624.08	658.88	687.88	708.76	722.68	727.32
42.5	364.24	400.20	437.32	472.12	503.44	530.12	551.00	563.76	567.24
47.5	263.32	291.16	319.00	348.00	373.52	396.72	414.12	425.72	429.20
55.0	163.56	180.96	198.36	216.92	234.32	250.56	263.32	271.44	276.08
65.0	88.16	96.28	104.40	113.68	121.80	131.08	138.04	142.68	143.84
75.0	42.92	45.24	48.72	52.20	55.68	58.00	61.48	62.64	63.80
85.0	11.60	11.60	11.60	12.76	12.76	12.76	12.76	12.76	12.76
90.0	3.48	3.48	2.32	2.32	2.32	2.32	2.32	2.32	2.32
95.0	37.12	37.12	38.28	39.44	40.60	40.60	41.76	44.08	44.08
100.0	100.92	104.40	105.56	107.88	110.20	112.52	114.84	114.84	116.00
105.0	185.60	189.08	192.56	196.04	199.52	203.00	204.16	205.32	205.32
110.0	286.52	292.32	298.12	302.76	306.24	309.72	312.04	312.04	313.20
115.0	407.16	412.96	417.60	423.40	426.88	431.52	433.84	435.00	435.00
120.0	539.40	546.36	552.16	556.80	561.44	564.92	568.40	569.56	569.56
125.0	680.92	687.88	693.68	699.48	704.12	706.44	708.76	709.92	709.92
130.0	824.76	830.56	836.36	841.00	844.48	847.96	849.12	850.28	850.28
135.0	963.96	968.60	973.24	976.72	979.04	981.36	982.52	983.68	983.68
140.0	1090.40	1093.88	1097.36	1099.68	1100.84	1102.00	1103.16	1103.16	1104.32
145.0	1200.60	1201.76	1204.08	1205.24	1206.40	1206.40	1207.56	1207.56	1207.56
150.0	1292.24	1293.40	1293.40	1294.56	1294.56	1295.72	1295.72	1295.72	1296.88
155.0	1366.48	1367.64	1367.64	1367.64	1368.80	1368.80	1368.80	1368.80	1368.80
160.0	1425.64	1425.64	1425.64	1425.64	1426.80	1426.80	1426.80	1426.80	1426.80
165.0	1470.88	1470.88	1470.88	1470.88	1470.88	1470.88	1470.88	1470.88	1470.88
170.0	1501.04	1501.04	1501.04	1501.04	1501.04	1501.04	1501.04	1501.04	1501.04
175.0	1518.44	1518.44	1518.44	1518.44	1518.44	1518.44	1518.44	1518.44	1518.44
180.0	1523.08	1523.08	1523.08	1523.08	1523.08	1523.08	1523.08	1523.08	1523.08

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	441.08	N.A.	7.80
0-30	827.32	N.A.	14.50
0-40	1137.64	N.A.	20.00
0-60	1542.2	N.A.	27.10
0-80	1734.91	N.A.	30.50
0-90	1769.04	N.A.	31.10
10-90	1664.94	N.A.	29.30
20-40	696.56	N.A.	12.20
20-50	963.75	N.A.	16.90
40-70	527.17	N.A.	9.30
60-80	192.71	N.A.	3.40
70-80	70.11	N.A.	1.20
80-90	34.13	N.A.	0.60
90-110	244.61	N.A.	4.30
90-120	643.14	N.A.	11.30
90-130	1246.62	N.A.	21.90
90-150	2730.7	N.A.	48.00
90-180	3918.63	N.A.	68.90
110-180	3674.01	N.A.	64.60
0-180	5687.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	104.10
10-20	336.98
20-30	386.24
30-40	310.31
40-50	267.19
50-60	137.38
60-70	122.60
70-80	70.11
80-90	34.13
90-100	48.37
100-110	196.24
110-120	398.52
120-130	603.48
130-140	737.59
140-150	746.49
150-160	628.69
160-170	414.87
170-180	144.37

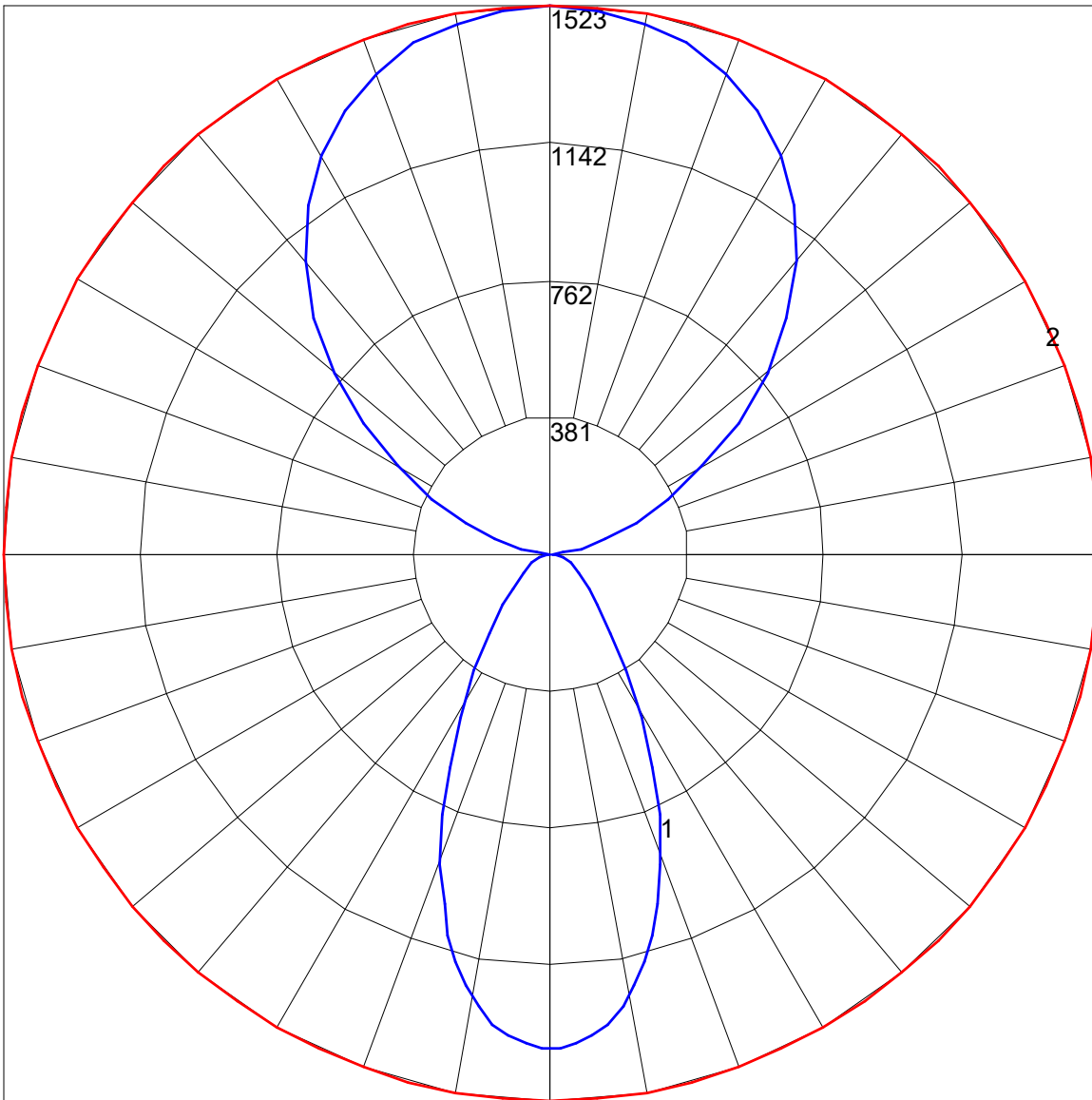
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	90	86	83	84	81	78	75	64	62	61	49	48	47	35	34	34	27
2	86	79	74	69	77	72	67	63	57	54	51	44	42	40	32	30	29	24
3	79	70	64	58	71	64	58	53	51	47	44	40	37	35	29	27	26	21
4	73	63	56	50	65	57	51	46	46	42	38	36	33	30	26	24	23	19
5	67	56	49	43	60	51	45	40	42	37	33	32	29	27	24	22	21	17
6	62	51	43	38	56	46	40	35	38	33	30	30	26	24	22	20	19	15
7	57	46	39	34	52	42	36	31	34	30	26	27	24	22	21	19	17	14
8	53	42	35	30	48	38	32	28	32	27	24	25	22	20	19	17	15	13
9	50	38	31	27	45	35	29	25	29	25	21	23	20	18	18	16	14	12
10	47	35	29	24	42	32	27	23	27	22	19	22	18	16	17	15	13	11

POLAR GRAPH



Maximum Candela = 1523.08 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.)