

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	102	106	108	108
Total Lumens, 4' rail length (1219mm)	5324	5492	5604	5604
Lumens per foot (305mm)	1331	1373	1401	1401
Lumens per foot UP (305mm)	878	906	924	924
Lumens per foot DOWN (305mm)	453	467	477	477
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_U1S2_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911549 (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-BL

[LUMINAIRE] ZipThree LED Suspended, 48", 3500K, 80 CRI, zipper board, symmetric lens up/60° 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	5604
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
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	3095	5044	6488
55	1363	2407	3568
65	686	1192	1975
75	398	651	1189
85	221	333	654

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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	1404.76	1404.76	1404.76	1404.76	1404.76	1404.76	1404.76	1404.76	1404.76	1404.76
1.0	1404.76	1404.76	1404.76	1404.76	1404.76	1404.76	1404.76	1404.76	1404.76	1404.76
3.0	1402.44	1401.28	1401.28	1401.28	1401.28	1402.44	1402.44	1402.44	1402.44	1402.44
5.0	1393.16	1393.16	1393.16	1393.16	1393.16	1394.32	1394.32	1394.32	1395.48	1395.48
7.0	1379.24	1379.24	1380.40	1380.40	1380.40	1381.56	1382.72	1382.72	1383.88	1385.04
9.0	1359.52	1360.68	1360.68	1361.84	1361.84	1363.00	1365.32	1366.48	1367.64	1369.96
11.0	1335.16	1335.16	1335.16	1336.32	1338.64	1339.80	1342.12	1344.44	1347.92	1350.24
13.0	1302.68	1303.84	1303.84	1306.16	1308.48	1310.80	1314.28	1317.76	1321.24	1324.72
15.0	1264.40	1265.56	1266.72	1269.04	1272.52	1276.00	1280.64	1285.28	1289.92	1294.56
17.0	1219.16	1219.16	1221.48	1224.96	1229.60	1235.40	1241.20	1248.16	1255.12	1259.76
19.5	1150.72	1151.88	1154.20	1160.00	1166.96	1173.92	1183.20	1192.48	1200.60	1209.88
22.5	1053.28	1054.44	1059.08	1066.04	1075.32	1086.92	1099.68	1112.44	1125.20	1136.80
25.5	939.60	941.92	947.72	957.00	969.76	984.84	1001.08	1018.48	1034.72	1050.96
29.0	793.44	795.76	802.72	815.48	830.56	850.28	871.16	893.20	915.24	934.96
33.0	619.44	621.76	631.04	644.96	663.52	686.72	711.08	738.92	765.60	789.96
37.5	439.64	441.96	450.08	464.00	482.56	505.76	532.44	561.44	590.44	617.12
42.5	280.72	283.04	290.00	300.44	316.68	336.40	358.44	383.96	411.80	437.32
47.5	172.84	174.00	178.64	186.76	198.36	212.28	228.52	247.08	267.96	288.84
55.0	83.52	83.52	85.84	90.48	96.28	103.24	111.36	121.80	132.24	143.84
65.0	32.48	32.48	33.64	34.80	37.12	39.44	42.92	46.40	51.04	54.52
75.0	12.76	12.76	12.76	12.76	13.92	15.08	16.24	17.40	18.56	19.72
85.0	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	4.64
90.0	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32
95.0	35.96	37.12	37.12	37.12	37.12	37.12	38.28	38.28	38.28	38.28
100.0	80.04	80.04	80.04	81.20	82.36	83.52	84.68	87.00	89.32	91.64
105.0	140.36	140.36	141.52	143.84	145.00	148.48	151.96	155.44	158.92	163.56
110.0	220.40	221.56	222.72	225.04	228.52	232.00	236.64	241.28	247.08	251.72
115.0	320.16	320.16	322.48	324.80	328.28	332.92	337.56	344.52	351.48	359.60
120.0	433.84	435.00	437.32	440.80	445.44	451.24	459.36	467.48	476.76	484.88
125.0	569.56	570.72	573.04	576.52	582.32	588.12	595.08	603.20	610.16	618.28
130.0	713.40	713.40	715.72	719.20	723.84	728.48	735.44	742.40	749.36	757.48
135.0	853.76	854.92	856.08	859.56	863.04	868.84	873.48	880.44	887.40	894.36
140.0	988.32	989.48	990.64	992.96	996.44	1001.08	1005.72	1011.52	1017.32	1024.28
145.0	1111.28	1111.28	1112.44	1114.76	1118.24	1121.72	1125.20	1131.00	1135.64	1141.44
150.0	1218.00	1219.16	1220.32	1221.48	1223.80	1226.12	1229.60	1233.08	1237.72	1241.20
155.0	1309.64	1308.48	1309.64	1310.80	1311.96	1314.28	1316.60	1320.08	1322.40	1325.88
160.0	1381.56	1381.56	1382.72	1383.88	1385.04	1386.20	1387.36	1388.52	1390.84	1392.00
165.0	1437.24	1437.24	1437.24	1438.40	1438.40	1439.56	1439.56	1440.72	1441.88	1443.04
170.0	1475.52	1475.52	1475.52	1475.52	1475.52	1475.52	1476.68	1476.68	1476.68	1477.84
175.0	1496.40	1496.40	1496.40	1496.40	1496.40	1496.40	1496.40	1496.40	1496.40	1496.40
180.0	1502.20	1502.20	1502.20	1502.20	1502.20	1502.20	1502.20	1502.20	1502.20	1502.20

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	1404.76	1404.76	1404.76	1404.76	1404.76	1404.76	1404.76	1404.76	1404.76
1.0	1404.76	1404.76	1404.76	1404.76	1404.76	1405.92	1404.76	1404.76	1405.92
3.0	1402.44	1402.44	1402.44	1402.44	1403.60	1402.44	1402.44	1403.60	1402.44
5.0	1396.64	1396.64	1396.64	1396.64	1397.80	1397.80	1397.80	1397.80	1398.96
7.0	1386.20	1386.20	1387.36	1388.52	1388.52	1388.52	1389.68	1389.68	1389.68
9.0	1371.12	1372.28	1373.44	1374.60	1375.76	1376.92	1376.92	1378.08	1378.08
11.0	1352.56	1353.72	1356.00	1358.36	1359.52	1360.68	1361.84	1361.84	1361.84
13.0	1328.20	1331.68	1334.00	1336.32	1338.64	1339.80	1340.96	1342.12	1342.12
15.0	1299.20	1303.84	1307.32	1310.80	1313.12	1315.44	1316.60	1317.76	1317.76

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CANDELA TABULATION - (Cont.)

17.0	1266.72	1271.36	1276.00	1280.64	1282.96	1285.28	1287.60	1288.76	1288.76
19.5	1216.84	1223.80	1229.60	1235.40	1238.88	1241.20	1243.52	1244.68	1244.68
22.5	1147.24	1156.52	1163.48	1170.44	1175.08	1178.56	1179.72	1180.88	1182.04
25.5	1064.88	1076.48	1085.76	1092.72	1098.52	1102.00	1104.32	1106.64	1106.64
29.0	953.52	968.60	980.20	988.32	994.12	997.60	999.92	1001.08	1001.08
33.0	812.00	829.40	843.32	852.60	859.56	863.04	865.36	865.36	866.52
37.5	642.64	662.36	677.44	689.04	694.84	698.32	700.64	701.80	701.80
42.5	460.52	481.40	496.48	508.08	515.04	518.52	520.84	522.00	522.00
47.5	308.56	325.96	338.72	349.16	356.12	360.76	364.24	365.40	365.40
55.0	155.44	165.88	175.16	182.12	187.92	192.56	196.04	197.20	198.36
65.0	59.16	63.80	67.28	70.76	74.24	77.72	78.88	80.04	81.20
75.0	22.04	23.20	24.36	26.68	27.84	29.00	30.16	30.16	30.16
85.0	4.64	4.64	4.64	5.80	5.80	5.80	5.80	5.80	5.80
90.0	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32
95.0	38.28	38.28	38.28	39.44	39.44	39.44	39.44	40.60	40.60
100.0	92.80	95.12	97.44	98.60	99.76	102.08	103.24	103.24	103.24
105.0	167.04	170.52	172.84	177.48	180.96	182.12	183.28	183.28	183.28
110.0	257.52	263.32	270.28	274.92	277.24	279.56	279.56	280.72	280.72
115.0	368.88	375.84	381.64	386.28	388.60	392.08	393.24	394.40	394.40
120.0	493.00	499.96	505.76	511.56	516.20	519.68	522.00	523.16	523.16
125.0	626.40	633.36	641.48	647.28	653.08	657.72	661.20	662.36	663.52
130.0	765.60	772.56	780.68	787.64	793.44	799.24	802.72	805.04	805.04
135.0	902.48	909.44	917.56	924.52	930.32	936.12	939.60	941.92	941.92
140.0	1031.24	1038.20	1045.16	1050.96	1056.76	1060.24	1063.72	1066.04	1066.04
145.0	1147.24	1153.04	1157.68	1163.48	1166.96	1170.44	1172.76	1175.08	1175.08
150.0	1245.84	1250.48	1253.96	1258.60	1260.92	1263.24	1265.56	1266.72	1266.72
155.0	1328.20	1331.68	1334.00	1336.32	1338.64	1339.80	1340.96	1342.12	1342.12
160.0	1394.32	1396.64	1397.80	1398.96	1400.12	1401.28	1401.28	1402.44	1402.44
165.0	1443.04	1444.20	1445.36	1445.36	1446.52	1446.52	1446.52	1447.68	1447.68
170.0	1477.84	1477.84	1477.84	1479.00	1479.00	1479.00	1479.00	1479.00	1479.00
175.0	1496.40	1497.56	1496.40	1496.40	1496.40	1496.40	1497.56	1497.56	1497.56
180.0	1502.20	1502.20	1502.20	1502.20	1502.20	1502.20	1502.20	1502.20	1502.20

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	472.20	N.A.	8.40
0-30	925.89	N.A.	16.50
0-40	1309.4	N.A.	23.40
0-60	1758.04	N.A.	31.40
0-80	1891.23	N.A.	33.70
0-90	1906.69	N.A.	34.00
10-90	1799.3	N.A.	32.10
20-40	837.20	N.A.	14.90
20-50	1150.84	N.A.	20.50
40-70	542.51	N.A.	9.70
60-80	133.19	N.A.	2.40
70-80	39.31	N.A.	0.70
80-90	15.46	N.A.	0.30
90-110	222.79	N.A.	4.00
90-120	581.84	N.A.	10.40
90-130	1135.1	N.A.	20.30
90-150	2538.42	N.A.	45.30
90-180	3697.46	N.A.	66.00
110-180	3474.68	N.A.	62.00
0-180	5604.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	107.39
10-20	364.82
20-30	453.68
30-40	383.52
40-50	313.64
50-60	135.00
60-70	93.87
70-80	39.31
80-90	15.46
90-100	46.37
100-110	176.42
110-120	359.06
120-130	553.26
130-140	690.40
140-150	712.92
150-160	609.99
160-170	406.82
170-180	142.24

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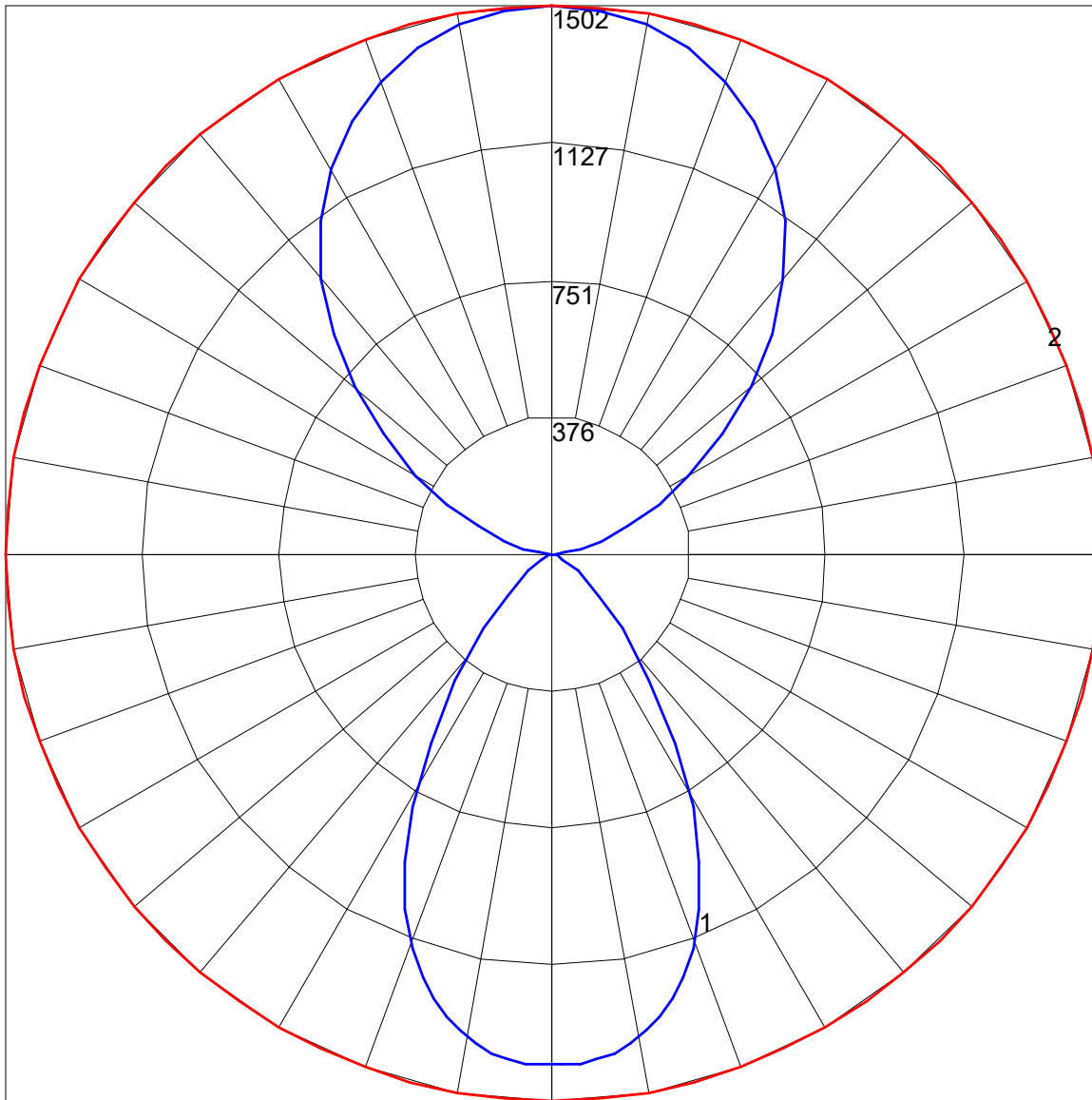
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	93	93	93	93	74	74	74	57	57	57	41	41	41	34
1	95	91	88	85	86	83	80	77	66	65	63	52	50	49	38	37	37	30
2	87	81	75	71	79	73	69	65	59	56	54	46	44	43	35	33	32	27
3	80	72	65	60	72	65	60	55	53	49	46	42	39	37	32	30	29	24
4	74	64	57	52	67	59	52	48	48	44	40	38	35	33	29	27	26	22
5	68	58	50	45	62	53	46	42	43	39	35	35	32	29	27	25	23	20
6	63	52	45	39	57	48	41	37	40	35	31	32	29	26	25	22	21	18
7	59	47	40	35	53	43	37	33	36	31	28	29	26	23	23	21	19	16
8	55	43	36	31	49	40	33	29	33	28	25	27	24	21	21	19	17	15
9	51	40	33	28	46	36	30	26	31	26	23	25	22	19	20	18	16	14
10	48	36	30	25	43	34	28	24	28	24	21	23	20	18	18	16	15	13

POLAR GRAPH



Maximum Candela = 1502.2 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.)