

**IES Report**

**ZipThree® | Ceiling Cable | 707 | Symmetric, up | Soft Diffuse, down | 80 CRI | SO**

707-Z3-XX-4-48-CC-XX-XX-XX-X-0-Z-SO-35-U1D2-0-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	114	117	120	122
Total Lumens, 4' rail length (1219mm)	5930	6117	6242	6367
Lumens per foot (305mm)	1483	1529	1561	1592
Lumens per foot UP (305mm)	3272	3375	3444	3513
Lumens per foot DOWN (305mm)	2658	2742	2798	2854
Input Power (W), 4' rail length (1219mm)	52.4	52.4	52.4	52.4
Watts per foot (305mm)	13.1	13.1	13.1	13.1
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-U1D2-BL.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L081800703 (SOURCE REPORT FOR REFERENCE)  
 [TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
 [ISSUEDATE] 8/15/2018  
 [MANUFAC] Vode Lighting  
 [LUMCAT] 707-Z3-CC-Z-SO-35-U1D2-BL  
 [LUMINAIRE] ZipThree Suspended, 48", 3500K, 80 CRI, zipper board,  
 [MORE] symmetric lens up/soft diffuse 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	6242
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	51.3
Ballast Factor	1.00
CIE Type	General Diffuse
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)	4.00 ft
Luminous Height	0.02 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9098	9236	9690
55	8510	8673	9286
65	7710	7896	8674
75	6458	6653	7570
85	3962	4242	5822

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**CANDELA TABULATION**

	<b>0</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>35</b>	<b>40</b>	<b>45</b>
<b>0</b>	975.56	975.56	975.56	975.56	975.56	975.56	975.56	975.56	975.56	975.56
<b>5</b>	970.92	972.08	970.92	972.08	970.92	970.92	972.08	972.08	970.92	970.92
<b>10</b>	958.16	958.16	958.16	958.16	958.16	958.16	958.16	958.16	958.16	958.16
<b>15</b>	936.12	936.12	936.12	936.12	936.12	936.12	936.12	936.12	936.12	934.96
<b>20</b>	905.96	905.96	905.96	905.96	905.96	904.80	904.80	904.80	904.80	904.80
<b>25</b>	866.52	866.52	866.52	866.52	866.52	866.52	866.52	866.52	865.36	865.36
<b>30</b>	821.28	821.28	821.28	821.28	821.28	820.12	820.12	820.12	818.96	818.96
<b>35</b>	769.08	769.08	769.08	769.08	767.92	767.92	767.92	767.92	766.76	766.76
<b>40</b>	709.92	709.92	709.92	709.92	709.92	709.92	708.76	708.76	707.60	707.60
<b>45</b>	646.12	646.12	646.12	646.12	646.12	644.96	644.96	643.80	643.80	643.80
<b>50</b>	577.68	577.68	577.68	577.68	577.68	576.52	576.52	576.52	575.36	575.36
<b>55</b>	505.76	505.76	505.76	505.76	505.76	504.60	504.60	503.44	503.44	502.28
<b>60</b>	431.52	431.52	431.52	430.36	430.36	430.36	429.20	429.20	428.04	426.88
<b>65</b>	354.96	354.96	354.96	354.96	353.80	353.80	352.64	352.64	351.48	350.32
<b>70</b>	278.40	278.40	278.40	277.24	277.24	276.08	276.08	274.92	273.76	272.60
<b>75</b>	201.84	201.84	201.84	201.84	200.68	199.52	199.52	198.36	197.20	196.04
<b>80</b>	128.76	128.76	128.76	128.76	127.60	127.60	126.44	125.28	124.12	122.96
<b>85</b>	61.48	61.48	61.48	60.32	60.32	60.32	59.16	59.16	58.00	58.00
<b>90</b>	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32
<b>95</b>	29.00	29.00	29.00	29.00	29.00	30.16	30.16	30.16	31.32	31.32
<b>100</b>	75.40	75.40	75.40	76.56	76.56	77.72	78.88	81.20	82.36	83.52
<b>105</b>	134.56	134.56	135.72	136.88	138.04	140.36	142.68	145.00	148.48	151.96
<b>110</b>	209.96	209.96	211.12	213.44	215.76	219.24	222.72	226.20	230.84	235.48
<b>115</b>	302.76	302.76	303.92	306.24	309.72	314.36	319.00	323.64	329.44	335.24
<b>120</b>	410.64	411.80	412.96	416.44	419.92	424.56	430.36	436.16	443.12	450.08
<b>125</b>	534.76	534.76	537.08	539.40	544.04	548.68	555.64	561.44	569.56	577.68
<b>130</b>	667.00	668.16	669.32	672.80	677.44	682.08	687.88	694.84	702.96	709.92
<b>135</b>	802.72	803.88	805.04	808.52	812.00	816.64	822.44	828.24	834.04	841.00
<b>140</b>	933.80	933.80	934.96	937.28	940.76	944.24	947.72	952.36	957.00	961.64
<b>145</b>	1048.64	1048.64	1049.80	1050.96	1053.28	1055.60	1059.08	1061.40	1064.88	1067.20
<b>150</b>	1146.08	1146.08	1146.08	1147.24	1148.40	1149.56	1151.88	1153.04	1155.36	1156.52
<b>155</b>	1222.64	1222.64	1223.80	1223.80	1224.96	1226.12	1226.12	1227.28	1228.44	1229.60
<b>160</b>	1284.12	1284.12	1284.12	1284.12	1285.28	1285.28	1286.44	1286.44	1287.60	1288.76
<b>165</b>	1330.52	1330.52	1330.52	1330.52	1330.52	1331.68	1331.68	1332.84	1334.00	1334.00
<b>170</b>	1364.16	1364.16	1365.32	1365.32	1365.32	1365.32	1365.32	1366.48	1366.48	1367.64
<b>175</b>	1386.20	1386.20	1386.20	1386.20	1386.20	1386.20	1386.20	1386.20	1387.36	1387.36
<b>180</b>	1393.16	1393.16	1393.16	1393.16	1393.16	1393.16	1393.16	1393.16	1393.16	1393.16

**Vert. Angles**      **Horizontal Angles**

	<b>50</b>	<b>55</b>	<b>60</b>	<b>65</b>	<b>70</b>	<b>75</b>	<b>80</b>	<b>85</b>	<b>90</b>
<b>0</b>	975.56	975.56	975.56	975.56	975.56	975.56	975.56	975.56	975.56
<b>5</b>	970.92	970.92	970.92	970.92	972.08	970.92	970.92	970.92	970.92
<b>10</b>	958.16	958.16	958.16	958.16	958.16	958.16	958.16	958.16	958.16
<b>15</b>	934.96	934.96	934.96	934.96	934.96	934.96	934.96	934.96	934.96
<b>20</b>	904.80	904.80	903.64	903.64	903.64	903.64	903.64	903.64	903.64
<b>25</b>	865.36	865.36	864.20	864.20	864.20	864.20	864.20	864.20	864.20
<b>30</b>	818.96	817.80	817.80	817.80	817.80	817.80	816.64	816.64	816.64
<b>35</b>	765.60	765.60	765.60	764.44	764.44	764.44	764.44	764.44	764.44
<b>40</b>	707.60	706.44	706.44	705.28	705.28	705.28	705.28	705.28	704.12
<b>45</b>	642.64	642.64	641.48	641.48	640.32	640.32	640.32	640.32	640.32
<b>50</b>	574.20	574.20	573.04	573.04	571.88	571.88	571.88	571.88	571.88
<b>55</b>	502.28	501.12	501.12	499.96	499.96	498.80	498.80	498.80	498.80
<b>60</b>	426.88	425.72	424.56	424.56	423.40	423.40	423.40	423.40	422.24

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	349.16	348.00	348.00	346.84	345.68	345.68	344.52	344.52	344.52
<b>70</b>	271.44	270.28	269.12	267.96	266.80	265.64	265.64	264.48	264.48
<b>75</b>	194.88	193.72	192.56	190.24	189.08	187.92	186.76	186.76	185.60
<b>80</b>	121.80	120.64	119.48	117.16	116.00	114.84	113.68	112.52	112.52
<b>85</b>	56.84	55.68	54.52	53.36	52.20	51.04	51.04	49.88	49.88
<b>90</b>	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32
<b>95</b>	32.48	32.48	32.48	33.64	33.64	33.64	33.64	33.64	33.64
<b>100</b>	85.84	87.00	89.32	90.48	91.64	91.64	92.80	92.80	92.80
<b>105</b>	154.28	157.76	161.24	163.56	165.88	167.04	168.20	168.20	168.20
<b>110</b>	240.12	244.76	249.40	252.88	256.36	258.68	259.84	261.00	261.00
<b>115</b>	342.20	348.00	352.64	358.44	361.92	364.24	366.56	367.72	367.72
<b>120</b>	457.04	464.00	470.96	475.60	480.24	483.72	486.04	487.20	488.36
<b>125</b>	584.64	591.60	598.56	604.36	607.84	611.32	614.80	617.12	617.12
<b>130</b>	716.88	723.84	729.64	734.28	738.92	742.40	744.72	747.04	748.20
<b>135</b>	846.80	851.44	856.08	860.72	864.20	867.68	870.00	872.32	873.48
<b>140</b>	966.28	969.76	973.24	976.72	979.04	982.52	984.84	987.16	988.32
<b>145</b>	1069.52	1073.00	1075.32	1077.64	1079.96	1083.44	1085.76	1086.92	1088.08
<b>150</b>	1158.84	1160.00	1162.32	1164.64	1166.96	1169.28	1170.44	1172.76	1172.76
<b>155</b>	1230.76	1233.08	1234.24	1236.56	1237.72	1240.04	1241.20	1242.36	1242.36
<b>160</b>	1289.92	1291.08	1292.24	1293.40	1294.56	1296.88	1298.04	1298.04	1299.20
<b>165</b>	1335.16	1336.32	1337.48	1337.48	1338.64	1339.80	1340.96	1340.96	1340.96
<b>170</b>	1367.64	1368.80	1368.80	1369.96	1369.96	1369.96	1371.12	1371.12	1371.12
<b>175</b>	1387.36	1387.36	1387.36	1387.36	1387.36	1387.36	1388.52	1388.52	1388.52
<b>180</b>	1393.16	1393.16	1393.16	1393.16	1393.16	1393.16	1393.16	1393.16	1393.16

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	356.28	N.A.	5.70
0-30	755.11	N.A.	12.10
0-40	1234.56	N.A.	19.80
0-60	2179.96	N.A.	34.90
0-80	2733.45	N.A.	43.80
0-90	2798.12	N.A.	44.80
10-90	2705.83	N.A.	43.30
20-40	878.27	N.A.	14.10
20-50	1374.53	N.A.	22.00
40-70	1291.9	N.A.	20.70
60-80	553.50	N.A.	8.90
70-80	207.00	N.A.	3.30
80-90	64.67	N.A.	1.00
90-110	205.01	N.A.	3.30
90-120	540.66	N.A.	8.70
90-130	1057.24	N.A.	16.90
90-150	2369.03	N.A.	38.00
90-180	3444.17	N.A.	55.20
110-180	3239.16	N.A.	51.90
0-180	6242.3	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	92.29
10-20	263.99
20-30	398.83
30-40	479.45
40-50	496.26
50-60	449.14
60-70	346.50
70-80	207.00
80-90	64.67
90-100	40.63
100-110	164.37
110-120	335.66
120-130	516.58
130-140	645.81
140-150	665.97
150-160	566.73
160-170	376.63
170-180	131.78

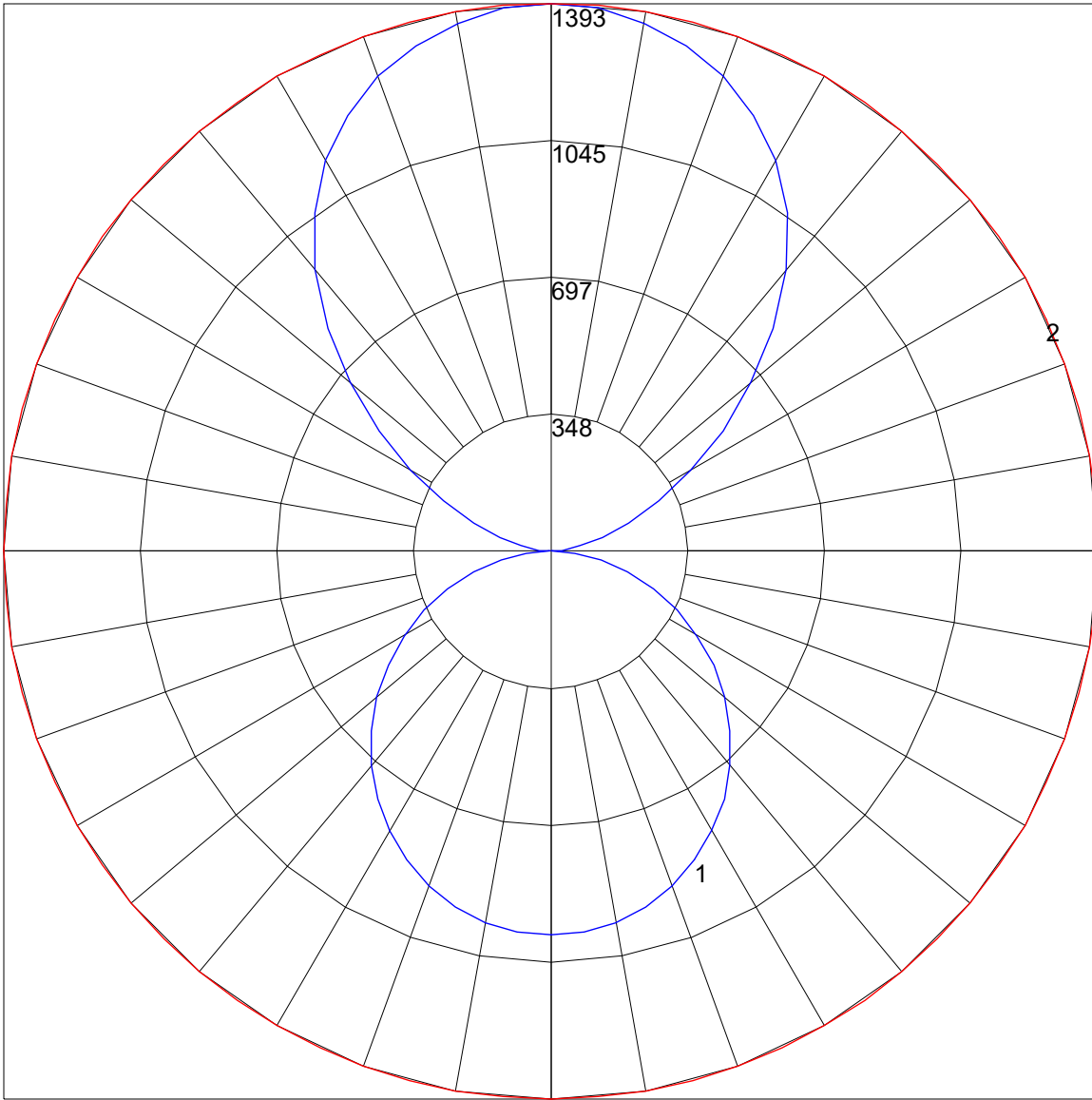
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	96	92	88	84	88	84	81	78	70	68	66	57	55	54	45	44	43	37
2	88	80	74	69	80	74	68	64	61	57	54	50	47	45	39	37	36	31
3	80	70	63	57	73	65	58	53	54	49	45	44	40	38	35	32	30	26
4	73	62	54	48	66	57	50	45	48	42	38	39	35	32	31	28	26	22
5	67	55	47	41	61	51	44	38	43	37	33	35	31	28	28	25	22	19
6	61	49	41	35	56	46	38	33	38	33	29	31	27	24	25	22	20	17
7	57	44	36	31	52	41	34	29	35	29	25	29	24	21	23	20	17	15
8	53	40	33	27	48	37	30	26	31	26	22	26	22	19	21	18	16	13
9	49	37	29	24	45	34	27	23	29	23	20	24	20	17	19	16	14	12
10	46	34	26	22	42	31	25	20	27	21	18	22	18	15	18	15	13	11

POLAR GRAPH



Maximum Candela = 1393.16 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.)