

## 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-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	130	134	137	137
Total Lumens, 4' rail length (1219mm)	6777	6991	7134	7134
Lumens per foot (305mm)	1694	1748	1783	1783
Lumens per foot UP (305mm)	955	985	1005	1005
Lumens per foot DOWN (305mm)	739	762	778	778
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\_U1D2.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911551 (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-U1D2-AL

[LUMINAIRE] ZipThree LED Suspended, 48", 3500K, 80 CRI, zipper board, symmetric lens up/soft diffuse 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	7134
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	52.24
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)	0.26 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	9831	9959	10449
55	9241	9414	10079
65	8374	8601	9482
75	6948	7199	8367
85	4122	4410	6409

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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</b>	1069.52	1069.52	1069.52	1069.52	1069.52	1069.52	1069.52	1069.52	1069.52	1069.52
<b>5</b>	1066.04	1066.04	1066.04	1066.04	1066.04	1066.04	1067.20	1066.04	1066.04	1066.04
<b>10</b>	1052.12	1053.28	1053.28	1052.12	1052.12	1052.12	1052.12	1052.12	1052.12	1052.12
<b>15</b>	1030.08	1030.08	1030.08	1030.08	1030.08	1030.08	1030.08	1028.92	1030.08	1030.08
<b>20</b>	997.60	997.60	997.60	997.60	997.60	997.60	997.60	996.44	996.44	996.44
<b>25</b>	957.00	957.00	957.00	957.00	957.00	957.00	955.84	955.84	955.84	955.84
<b>30</b>	908.28	908.28	908.28	908.28	908.28	907.12	907.12	907.12	907.12	905.96
<b>35</b>	851.44	852.60	852.60	851.44	851.44	851.44	851.44	851.44	850.28	850.28
<b>40</b>	788.80	788.80	788.80	788.80	788.80	788.80	787.64	787.64	787.64	786.48
<b>45</b>	720.36	720.36	720.36	719.20	719.20	719.20	719.20	718.04	718.04	716.88
<b>50</b>	644.96	644.96	644.96	644.96	644.96	643.80	643.80	642.64	642.64	642.64
<b>55</b>	566.08	566.08	566.08	566.08	566.08	564.92	564.92	563.76	563.76	562.60
<b>60</b>	482.56	482.56	482.56	482.56	482.56	481.40	481.40	481.40	480.24	480.24
<b>65</b>	396.72	396.72	396.72	396.72	396.72	395.56	395.56	394.40	394.40	393.24
<b>70</b>	309.72	309.72	309.72	308.56	308.56	308.56	307.40	307.40	306.24	306.24
<b>75</b>	222.72	222.72	222.72	221.56	221.56	221.56	220.40	220.40	219.24	218.08
<b>80</b>	139.20	139.20	139.20	139.20	138.04	138.04	136.88	136.88	135.72	134.56
<b>85</b>	64.96	64.96	64.96	64.96	64.96	63.80	63.80	63.80	62.64	61.48
<b>90</b>	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80
<b>95</b>	42.92	42.92	42.92	42.92	44.08	44.08	44.08	44.08	44.08	44.08
<b>100</b>	97.44	98.60	98.60	98.60	99.76	100.92	100.92	102.08	103.24	103.24
<b>105</b>	163.56	163.56	164.72	165.88	167.04	168.20	169.36	171.68	172.84	176.32
<b>110</b>	241.28	242.44	243.60	245.92	248.24	252.88	257.52	262.16	266.80	272.60
<b>115</b>	348.00	349.16	350.32	353.80	357.28	363.08	368.88	377.00	387.44	400.20
<b>120</b>	475.60	475.60	479.08	483.72	490.68	498.80	509.24	520.84	532.44	544.04
<b>125</b>	633.36	634.52	638.00	642.64	649.60	658.88	667.00	676.28	684.40	692.52
<b>130</b>	801.56	801.56	803.88	807.36	812.00	817.80	823.60	829.40	836.36	842.16
<b>135</b>	957.00	958.16	959.32	961.64	965.12	968.60	973.24	977.88	981.36	986.00
<b>140</b>	1098.52	1098.52	1099.68	1100.84	1103.16	1105.48	1108.96	1112.44	1115.92	1118.24
<b>145</b>	1220.32	1221.48	1221.48	1222.64	1223.80	1226.12	1227.28	1229.60	1231.92	1234.24
<b>150</b>	1323.56	1323.56	1324.72	1324.72	1325.88	1327.04	1328.20	1329.36	1330.52	1331.68
<b>155</b>	1407.08	1407.08	1407.08	1408.24	1408.24	1409.40	1409.40	1410.56	1410.56	1411.72
<b>160</b>	1473.20	1473.20	1473.20	1473.20	1473.20	1473.20	1474.36	1474.36	1474.36	1475.52
<b>165</b>	1521.92	1521.92	1521.92	1521.92	1521.92	1521.92	1521.92	1521.92	1521.92	1523.08
<b>170</b>	1554.40	1554.40	1554.40	1554.40	1554.40	1554.40	1554.40	1555.56	1555.56	1554.40
<b>175</b>	1572.96	1572.96	1572.96	1572.96	1572.96	1572.96	1572.96	1572.96	1572.96	1572.96
<b>180</b>	1577.60	1577.60	1577.60	1577.60	1577.60	1577.60	1577.60	1577.60	1577.60	1577.60

**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</b>	1069.52	1069.52	1069.52	1069.52	1069.52	1069.52	1069.52	1069.52	1069.52
<b>5</b>	1066.04	1066.04	1066.04	1066.04	1066.04	1066.04	1066.04	1066.04	1066.04
<b>10</b>	1052.12	1052.12	1052.12	1052.12	1052.12	1052.12	1052.12	1052.12	1052.12
<b>15</b>	1030.08	1028.92	1028.92	1028.92	1028.92	1027.76	1028.92	1028.92	1028.92
<b>20</b>	996.44	996.44	996.44	996.44	996.44	995.28	995.28	995.28	995.28
<b>25</b>	955.84	954.68	954.68	954.68	954.68	954.68	954.68	954.68	953.52
<b>30</b>	905.96	905.96	904.80	904.80	904.80	904.80	904.80	904.80	904.80
<b>35</b>	849.12	849.12	847.96	847.96	847.96	847.96	847.96	847.96	847.96
<b>40</b>	786.48	785.32	785.32	785.32	784.16	784.16	784.16	784.16	784.16
<b>45</b>	716.88	715.72	715.72	715.72	714.56	714.56	714.56	714.56	714.56
<b>50</b>	641.48	641.48	641.48	640.32	640.32	640.32	639.16	639.16	639.16
<b>55</b>	562.60	562.60	562.60	561.44	561.44	560.28	560.28	560.28	560.28
<b>60</b>	479.08	479.08	477.92	477.92	476.76	476.76	476.76	476.76	476.76

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	393.24	392.08	392.08	390.92	390.92	390.92	389.76	389.76	389.76
<b>70</b>	305.08	303.92	302.76	302.76	301.60	301.60	301.60	300.44	300.44
<b>75</b>	216.92	216.92	215.76	214.60	213.44	213.44	212.28	212.28	212.28
<b>80</b>	134.56	133.40	132.24	131.08	129.92	128.76	128.76	127.60	127.60
<b>85</b>	61.48	60.32	59.16	59.16	58.00	58.00	56.84	56.84	56.84
<b>90</b>	5.80	5.80	5.80	5.80	4.64	4.64	4.64	4.64	4.64
<b>95</b>	44.08	44.08	44.08	42.92	42.92	41.76	42.92	45.24	45.24
<b>100</b>	103.24	103.24	104.40	105.56	109.04	116.00	118.32	118.32	118.32
<b>105</b>	180.96	184.44	190.24	199.52	206.48	209.96	211.12	211.12	211.12
<b>110</b>	281.88	293.48	303.92	312.04	315.52	319.00	320.16	321.32	321.32
<b>115</b>	411.80	422.24	429.20	435.00	438.48	441.96	443.12	444.28	444.28
<b>120</b>	552.16	560.28	566.08	570.72	575.36	577.68	580.00	581.16	581.16
<b>125</b>	699.48	705.28	711.08	715.72	719.20	722.68	723.84	725.00	726.16
<b>130</b>	847.96	852.60	857.24	861.88	864.20	867.68	868.84	870.00	871.16
<b>135</b>	990.64	995.28	998.76	1002.24	1004.56	1006.88	1008.04	1009.20	1009.20
<b>140</b>	1121.72	1125.20	1127.52	1129.84	1132.16	1133.32	1134.48	1134.48	1135.64
<b>145</b>	1236.56	1238.88	1240.04	1242.36	1243.52	1244.68	1244.68	1244.68	1244.68
<b>150</b>	1334.00	1335.16	1336.32	1336.32	1337.48	1338.64	1338.64	1338.64	1338.64
<b>155</b>	1412.88	1412.88	1414.04	1414.04	1415.20	1415.20	1415.20	1416.36	1415.20
<b>160</b>	1475.52	1475.52	1475.52	1476.68	1476.68	1476.68	1476.68	1476.68	1476.68
<b>165</b>	1523.08	1523.08	1523.08	1523.08	1523.08	1523.08	1523.08	1523.08	1523.08
<b>170</b>	1555.56	1555.56	1555.56	1555.56	1555.56	1555.56	1555.56	1555.56	1555.56
<b>175</b>	1572.96	1572.96	1572.96	1572.96	1572.96	1572.96	1572.96	1574.12	1574.12
<b>180</b>	1577.60	1577.60	1577.60	1577.60	1577.60	1577.60	1577.60	1577.60	1577.60

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	391.78	N.A.	5.50
0-30	832.18	N.A.	11.70
0-40	1363.85	N.A.	19.10
0-60	2420.24	N.A.	33.90
0-80	3040.49	N.A.	42.60
0-90	3112.02	N.A.	43.60
10-90	3010.7	N.A.	42.20
20-40	972.08	N.A.	13.60
20-50	1525.24	N.A.	21.40
40-70	1445.64	N.A.	20.30
60-80	620.25	N.A.	8.70
70-80	231.00	N.A.	3.20
80-90	71.52	N.A.	1.00
90-110	252.19	N.A.	3.50
90-120	650.79	N.A.	9.10
90-130	1264.49	N.A.	17.70
90-150	2792.48	N.A.	39.10
90-180	4021.58	N.A.	56.40
110-180	3769.39	N.A.	52.80
0-180	7133.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	101.31
10-20	290.47
20-30	440.41
30-40	531.67
40-50	553.16
50-60	503.22
60-70	389.26
70-80	231.00
80-90	71.52
90-100	53.87
100-110	198.32
110-120	398.60
120-130	613.70
130-140	757.89
140-150	770.10
150-160	649.93
160-170	429.60
170-180	149.57

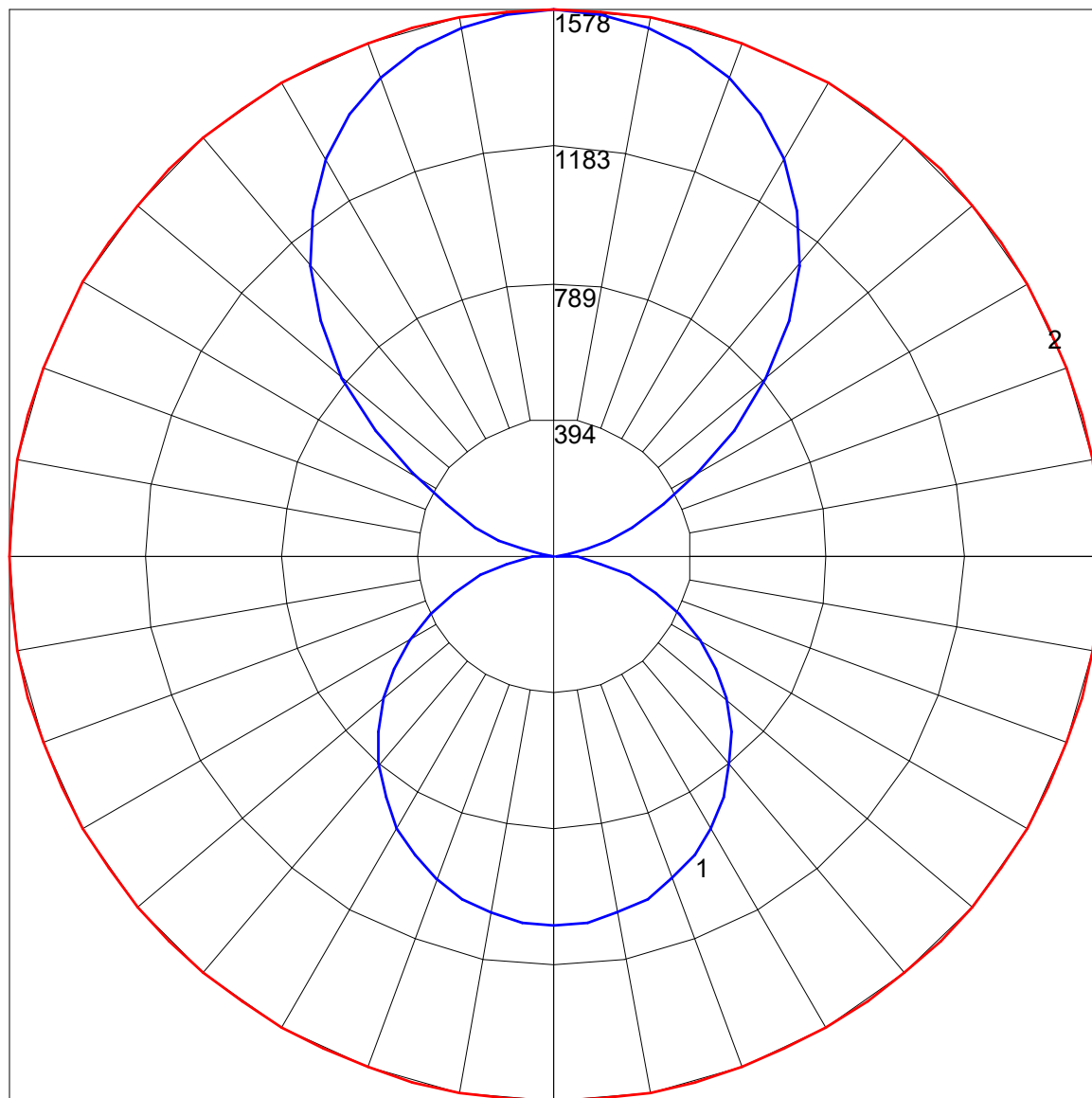
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	64	64	64	50	50	50	44
1	96	92	88	84	88	84	81	78	70	67	65	56	55	53	44	43	42	36
2	87	80	74	68	80	73	68	63	61	57	53	49	46	44	38	37	35	30
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	34	32	30	25
4	73	62	54	48	66	57	50	44	47	42	38	38	35	31	30	28	25	21
5	67	55	47	41	61	51	43	38	42	37	33	34	30	27	27	24	22	19
6	61	49	41	35	56	45	38	33	38	32	28	31	27	24	25	22	19	16
7	57	44	36	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14
8	52	40	32	27	48	37	30	25	31	26	22	26	22	18	20	17	15	13
9	49	37	29	24	44	34	27	22	28	23	19	24	19	17	19	16	14	11
10	45	33	26	21	42	31	24	20	26	21	18	22	18	15	17	14	12	10

POLAR GRAPH



Maximum Candela = 1577.6 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.)