

## IES Report

### ZipThree® | Ceiling Cable | 707 | Symmetric, up | 80° Symmetric, down | 90 CRI | LO

707-Z3-XX-4-48-CC-XX-XX-XX-X-0-Z-LO-359-U1S7-0-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	95	98	100	104
Total Lumens, 4' rail length (1219mm)	2810	2899	2958	2988
Lumens per foot (305mm)	703	725	740	747
Lumens per foot UP (305mm)	401	413	422	426
Lumens per foot DOWN (305mm)	302	312	318	321
Input Power (W), 4' rail length (1219mm)	29.8	29.8	29.8	29.8
Watts per foot (305mm)	7.5	7.5	7.5	7.5
CRI	94	94	94	94

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\_LO\_359\_U1S7.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911550 (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-LO-359-U1S7-AL

[LUMINAIRE] ZipThree LED Suspended, 48", 3500K, 90 CRI, zipper board, symmetric lens up/80° symmetric lens down,

[MORE] low 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	2958
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	29.78
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	3698	4154	3974
55	2245	2778	2869
65	1425	1837	2165
75	951	1238	1655
85	476	610	958

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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>	661.5	661.5	661.5	661.5	661.5	661.5	661.5	661.5	661.5	661.5
<b>1.0</b>	661.5	661.5	661.5	661.5	661.5	661.5	661.5	661.5	661.5	661.5
<b>3.0</b>	661.0	660.5	660.5	661.0	661.0	661.0	661.0	661.0	661.0	661.0
<b>5.0</b>	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0
<b>7.0</b>	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0
<b>9.0</b>	651.5	652.0	652.0	651.5	652.0	651.5	651.5	652.0	651.5	651.5
<b>11.0</b>	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.5	646.0	646.0
<b>13.0</b>	639.0	639.0	639.0	639.5	639.5	639.5	639.5	639.5	639.5	639.0
<b>15.0</b>	631.0	631.0	631.0	631.0	631.0	631.5	631.5	631.0	631.0	631.0
<b>17.0</b>	621.0	621.0	621.0	621.5	621.5	621.5	621.5	621.5	621.5	621.0
<b>19.5</b>	606.0	606.0	606.5	606.5	607.0	607.0	607.5	607.0	607.0	606.5
<b>22.5</b>	584.0	584.0	584.5	584.5	585.5	586.0	586.0	586.0	585.5	585.0
<b>25.5</b>	557.0	557.0	558.0	558.5	559.5	560.0	560.5	560.5	560.0	559.0
<b>29.0</b>	518.5	519.0	520.0	521.5	523.0	524.0	525.0	525.5	524.5	523.5
<b>33.0</b>	465.5	466.5	468.0	470.0	472.5	474.5	476.5	477.0	476.5	475.0
<b>37.5</b>	396.0	396.5	398.5	402.0	405.5	409.0	412.0	414.0	414.0	412.5
<b>42.5</b>	311.0	312.0	315.0	319.0	324.0	329.0	333.5	336.5	337.5	336.5
<b>47.5</b>	231.0	231.5	234.5	239.0	244.5	250.5	255.0	259.0	261.5	261.5
<b>55.0</b>	137.5	138.5	141.0	144.5	148.5	153.5	158.0	162.0	164.5	166.0
<b>65.0</b>	67.5	68.0	69.0	70.5	73.0	75.5	78.0	80.5	82.5	84.0
<b>75.0</b>	30.5	31.0	31.5	32.0	33.0	34.0	35.0	36.0	37.0	37.5
<b>85.0</b>	7.5	7.5	7.5	7.5	7.5	8.0	8.0	8.0	8.5	8.5
<b>90.0</b>	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.5
<b>95.0</b>	16.5	16.5	16.5	16.5	16.5	17.0	17.0	17.0	17.5	17.5
<b>100.0</b>	40.5	40.5	41.0	41.0	41.5	42.5	43.0	43.5	44.5	45.0
<b>105.0</b>	73.0	73.0	73.0	73.5	74.5	75.5	76.0	77.0	78.0	79.0
<b>110.0</b>	110.0	110.0	110.5	111.5	112.0	113.5	114.5	116.0	117.0	117.5
<b>115.0</b>	154.5	154.5	155.0	155.5	156.5	157.5	158.5	159.5	161.5	166.0
<b>120.0</b>	202.5	202.5	203.0	204.0	205.5	208.0	212.0	217.0	223.5	229.0
<b>125.0</b>	264.5	265.0	266.5	269.0	272.5	276.5	281.0	285.5	290.0	293.5
<b>130.0</b>	337.5	338.0	339.0	340.5	343.0	346.0	348.5	351.5	354.0	356.0
<b>135.0</b>	404.5	404.5	405.5	406.5	407.5	409.0	410.5	412.0	414.0	415.5
<b>140.0</b>	462.0	462.0	462.5	463.0	463.5	464.5	465.5	466.5	467.5	468.5
<b>145.0</b>	511.0	511.0	511.0	511.5	512.0	512.5	513.0	513.5	514.5	515.0
<b>150.0</b>	551.5	552.0	552.0	552.0	552.5	552.5	553.0	553.5	554.0	554.5
<b>155.0</b>	585.0	585.0	585.5	585.5	585.5	586.0	586.0	586.5	586.5	587.0
<b>160.0</b>	611.5	611.5	611.5	611.5	611.5	611.5	612.0	612.0	612.0	612.0
<b>165.0</b>	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
<b>170.0</b>	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0
<b>175.0</b>	651.5	651.5	651.5	651.5	651.5	651.5	651.5	651.5	651.5	651.5
<b>180.0</b>	653.5	653.5	653.5	653.5	653.5	653.5	653.5	653.5	653.5	653.5

**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>
<b>0.0</b>	661.5	661.5	661.5	661.5	661.5	661.5	661.5	661.5	661.5
<b>1.0</b>	661.5	661.5	661.5	661.5	661.5	661.5	661.5	661.5	661.5
<b>3.0</b>	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	660.5
<b>5.0</b>	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0
<b>7.0</b>	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0	656.0
<b>9.0</b>	651.5	651.5	651.5	651.5	651.5	651.5	651.5	651.0	651.0
<b>11.0</b>	646.0	646.0	646.0	645.5	645.5	645.5	645.5	645.5	645.5
<b>13.0</b>	639.0	639.0	638.5	638.5	638.0	638.0	638.0	637.5	638.0
<b>15.0</b>	630.5	630.5	630.0	629.5	629.0	629.0	628.5	628.5	628.5

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**CANDELA TABULATION - (Cont.)**

<b>17.0</b>	620.5	620.0	619.5	619.0	618.5	618.0	617.5	617.0	617.0
<b>19.5</b>	605.5	605.0	604.0	603.0	602.0	601.5	600.5	600.5	600.0
<b>22.5</b>	583.5	582.0	581.0	579.5	578.0	576.5	575.5	575.0	574.5
<b>25.5</b>	557.5	555.5	553.5	551.0	549.0	547.0	545.5	544.5	544.5
<b>29.0</b>	521.0	518.5	515.5	512.0	509.0	506.5	504.0	503.0	502.5
<b>33.0</b>	472.5	468.5	464.5	460.0	456.0	452.5	450.0	448.0	447.5
<b>37.5</b>	409.5	405.0	400.0	395.0	390.0	386.0	383.0	381.0	380.0
<b>42.5</b>	333.5	329.5	324.5	319.5	315.0	311.0	308.0	306.0	305.5
<b>47.5</b>	259.5	257.0	253.0	249.0	245.5	242.5	240.0	238.5	238.0
<b>55.0</b>	166.5	166.0	164.5	163.5	162.0	161.0	160.0	159.5	159.5
<b>65.0</b>	85.5	86.5	87.0	87.5	88.0	88.5	88.5	89.0	89.0
<b>75.0</b>	38.5	39.0	40.0	40.5	41.0	41.5	41.5	42.0	42.0
<b>85.0</b>	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
<b>90.0</b>	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0	1.0
<b>95.0</b>	17.5	18.0	18.0	18.5	18.5	18.0	18.0	19.0	19.0
<b>100.0</b>	45.5	46.0	46.0	46.0	45.5	48.0	49.5	50.0	50.0
<b>105.0</b>	79.5	80.0	80.0	82.5	86.5	88.5	89.0	89.5	89.5
<b>110.0</b>	118.5	121.5	127.0	131.5	133.5	135.0	135.5	135.5	135.5
<b>115.0</b>	172.0	177.5	182.0	184.5	186.0	187.0	187.5	188.0	188.0
<b>120.0</b>	234.0	237.5	240.0	242.0	243.5	244.5	245.0	245.5	245.5
<b>125.0</b>	296.5	299.0	301.0	302.5	303.5	304.5	305.5	305.5	306.0
<b>130.0</b>	358.0	360.0	361.5	363.0	364.0	364.5	365.0	365.5	365.5
<b>135.0</b>	416.5	418.0	419.5	420.5	421.0	421.5	422.0	422.5	422.5
<b>140.0</b>	469.5	470.5	471.5	472.0	472.5	473.0	473.5	473.5	473.5
<b>145.0</b>	516.0	516.5	517.0	517.5	517.5	518.0	518.0	518.0	518.0
<b>150.0</b>	555.0	555.5	555.5	556.0	556.0	556.0	556.0	556.0	556.0
<b>155.0</b>	587.0	587.0	587.5	587.5	587.5	587.5	587.5	587.5	587.5
<b>160.0</b>	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0
<b>165.0</b>	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0	631.0
<b>170.0</b>	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0
<b>175.0</b>	651.5	651.5	651.5	651.5	651.5	651.5	651.5	651.5	651.5
<b>180.0</b>	653.5	653.5	653.5	653.5	653.5	653.5	653.5	653.5	653.5

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	228.85	N.A.	7.70
0-30	469.03	N.A.	15.90
0-40	703.31	N.A.	23.80
0-60	1070.64	N.A.	36.20
0-80	1244.42	N.A.	42.10
0-90	1271.5	N.A.	43.00
10-90	1220.68	N.A.	41.30
20-40	474.46	N.A.	16.00
20-50	712.10	N.A.	24.10
40-70	480.31	N.A.	16.20
60-80	173.78	N.A.	5.90
70-80	60.81	N.A.	2.10
80-90	27.08	N.A.	0.90
90-110	108.01	N.A.	3.70
90-120	277.94	N.A.	9.40
90-130	536.68	N.A.	18.10
90-150	1176.79	N.A.	39.80
90-180	1686.86	N.A.	57.00
110-180	1578.85	N.A.	53.40
0-180	2958.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	50.82
10-20	178.03
20-30	240.18
30-40	234.28
40-50	237.64
50-60	129.70
60-70	112.97
70-80	60.81
80-90	27.08
90-100	22.14
100-110	85.87
110-120	169.93
120-130	258.74
130-140	318.67
140-150	321.43
150-160	270.06
160-170	178.06
170-180	61.95

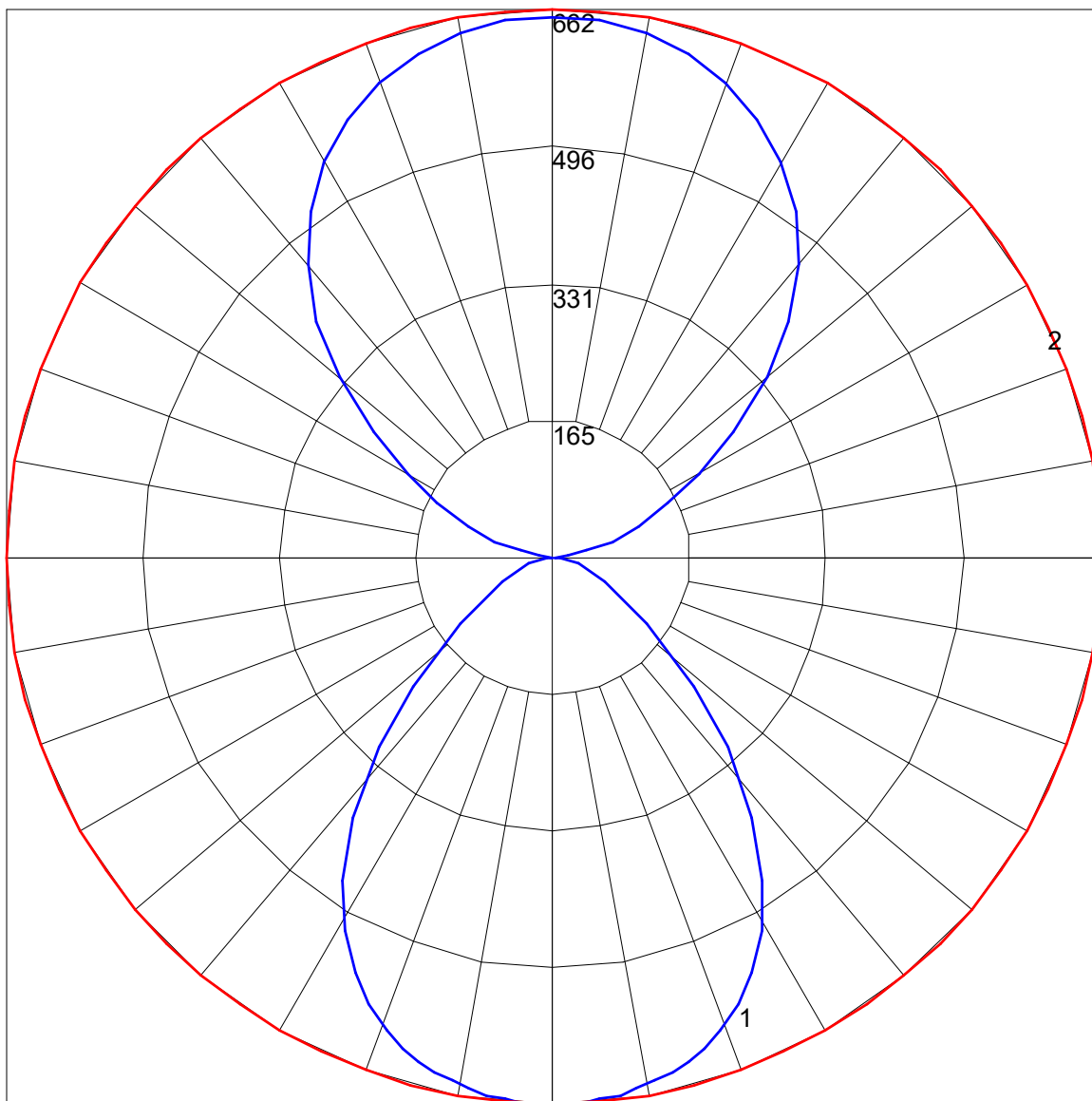
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	97	92	89	85	88	85	81	79	70	68	66	57	55	54	44	43	43	37
2	88	81	75	70	81	75	70	65	62	58	55	50	48	46	40	38	37	32
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	34	32	27
4	74	64	56	51	68	59	52	47	49	44	41	40	37	34	32	30	28	24
5	68	57	49	44	62	53	46	41	44	39	35	37	33	30	29	27	25	21
6	63	52	44	38	58	48	41	36	40	35	31	33	29	27	27	24	22	19
7	58	47	39	34	53	43	36	32	37	31	28	30	27	24	25	22	20	17
8	54	42	35	30	50	39	33	28	33	28	25	28	24	21	23	20	18	15
9	51	39	32	27	46	36	30	25	31	26	22	26	22	19	21	18	16	14
10	47	36	29	24	43	33	27	23	28	23	20	24	20	17	20	17	15	13

POLAR GRAPH



Maximum Candela = 661.5 Located At Horizontal Angle = 0, Vertical Angle = 0

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)