

## IES Report

### ZipThree® | Ceiling Cable | 707 | Symmetric, up | 60° Symmetric, down | 90 CRI | LO

707-Z3-XX-4-48-CC-XX-XX-XX-X-0-Z-LO-359-U1S2-0-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	78	80	82	82
Total Lumens, 4' rail length (1219mm)	2295	2367	2416	2440
Lumens per foot (305mm)	574	592	604	610
Lumens per foot UP (305mm)	379	390	398	402
Lumens per foot DOWN (305mm)	195	201	205	208
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\_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-LO-359-U1S2-BL

[LUMINAIRE] ZipThree LED Suspended, 48", 3500K, 90 CRI, zipper board, symmetric lens up/60° symmetric lens down,

[MORE] low 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	2416
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	29.78
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	1334	2174	2797
55	588	1037	1538
65	296	514	851
75	172	281	512
85	95	143	282

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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>	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5
<b>1.0</b>	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5
<b>3.0</b>	604.5	604.0	604.0	604.0	604.0	604.5	604.5	604.5	604.5	604.5
<b>5.0</b>	600.5	600.5	600.5	600.5	600.5	601.0	601.0	601.0	601.5	601.5
<b>7.0</b>	594.5	594.5	595.0	595.0	595.0	595.5	596.0	596.0	596.5	597.0
<b>9.0</b>	586.0	586.5	586.5	587.0	587.0	587.5	588.5	589.0	589.5	590.5
<b>11.0</b>	575.5	575.5	575.5	576.0	577.0	577.5	578.5	579.5	581.0	582.0
<b>13.0</b>	561.5	562.0	562.0	563.0	564.0	565.0	566.5	568.0	569.5	571.0
<b>15.0</b>	545.0	545.5	546.0	547.0	548.5	550.0	552.0	554.0	556.0	558.0
<b>17.0</b>	525.5	525.5	526.5	528.0	530.0	532.5	535.0	538.0	541.0	543.0
<b>19.5</b>	496.0	496.5	497.5	500.0	503.0	506.0	510.0	514.0	517.5	521.5
<b>22.5</b>	454.0	454.5	456.5	459.5	463.5	468.5	474.0	479.5	485.0	490.0
<b>25.5</b>	405.0	406.0	408.5	412.5	418.0	424.5	431.5	439.0	446.0	453.0
<b>29.0</b>	342.0	343.0	346.0	351.5	358.0	366.5	375.5	385.0	394.5	403.0
<b>33.0</b>	267.0	268.0	272.0	278.0	286.0	296.0	306.5	318.5	330.0	340.5
<b>37.5</b>	189.5	190.5	194.0	200.0	208.0	218.0	229.5	242.0	254.5	266.0
<b>42.5</b>	121.0	122.0	125.0	129.5	136.5	145.0	154.5	165.5	177.5	188.5
<b>47.5</b>	74.5	75.0	77.0	80.5	85.5	91.5	98.5	106.5	115.5	124.5
<b>55.0</b>	36.0	36.0	37.0	39.0	41.5	44.5	48.0	52.5	57.0	62.0
<b>65.0</b>	14.0	14.0	14.5	15.0	16.0	17.0	18.5	20.0	22.0	23.5
<b>75.0</b>	5.5	5.5	5.5	5.5	6.0	6.5	7.0	7.5	8.0	8.5
<b>85.0</b>	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0
<b>90.0</b>	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
<b>95.0</b>	15.5	16.0	16.0	16.0	16.0	16.0	16.5	16.5	16.5	16.5
<b>100.0</b>	34.5	34.5	34.5	35.0	35.5	36.0	36.5	37.5	38.5	39.5
<b>105.0</b>	60.5	60.5	61.0	62.0	62.5	64.0	65.5	67.0	68.5	70.5
<b>110.0</b>	95.0	95.5	96.0	97.0	98.5	100.0	102.0	104.0	106.5	108.5
<b>115.0</b>	138.0	138.0	139.0	140.0	141.5	143.5	145.5	148.5	151.5	155.0
<b>120.0</b>	187.0	187.5	188.5	190.0	192.0	194.5	198.0	201.5	205.5	209.0
<b>125.0</b>	245.5	246.0	247.0	248.5	251.0	253.5	256.5	260.0	263.0	266.5
<b>130.0</b>	307.5	307.5	308.5	310.0	312.0	314.0	317.0	320.0	323.0	326.5
<b>135.0</b>	368.0	368.5	369.0	370.5	372.0	374.5	376.5	379.5	382.5	385.5
<b>140.0</b>	426.0	426.5	427.0	428.0	429.5	431.5	433.5	436.0	438.5	441.5
<b>145.0</b>	479.0	479.0	479.5	480.5	482.0	483.5	485.0	487.5	489.5	492.0
<b>150.0</b>	525.0	525.5	526.0	526.5	527.5	528.5	530.0	531.5	533.5	535.0
<b>155.0</b>	564.5	564.0	564.5	565.0	565.5	566.5	567.5	569.0	570.0	571.5
<b>160.0</b>	595.5	595.5	596.0	596.5	597.0	597.5	598.0	598.5	599.5	600.0
<b>165.0</b>	619.5	619.5	619.5	620.0	620.0	620.5	620.5	621.0	621.5	622.0
<b>170.0</b>	636.0	636.0	636.0	636.0	636.0	636.0	636.5	636.5	636.5	637.0
<b>175.0</b>	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0
<b>180.0</b>	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5

## Vert. 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>0.0</b>	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5
<b>1.0</b>	605.5	605.5	605.5	605.5	605.5	606.0	605.5	605.5	606.0
<b>3.0</b>	604.5	604.5	604.5	604.5	605.0	604.5	604.5	605.0	604.5
<b>5.0</b>	602.0	602.0	602.0	602.0	602.5	602.5	602.5	602.5	603.0
<b>7.0</b>	597.5	597.5	598.0	598.5	598.5	598.5	599.0	599.0	599.0
<b>9.0</b>	591.0	591.5	592.0	592.5	593.0	593.5	593.5	594.0	594.0
<b>11.0</b>	583.0	583.5	584.5	585.5	586.0	586.5	587.0	587.0	587.0
<b>13.0</b>	572.5	574.0	575.0	576.0	577.0	577.5	578.0	578.5	578.5
<b>15.0</b>	560.0	562.0	563.5	565.0	566.0	567.0	567.5	568.0	568.0

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : VODE\_707\_Z3\_CC\_LO\_359\_U1S2\_BL.IES****CANDELA TABULATION - (Cont.)**

<b>17.0</b>	546.0	548.0	550.0	552.0	553.0	554.0	555.0	555.5	555.5
<b>19.5</b>	524.5	527.5	530.0	532.5	534.0	535.0	536.0	536.5	536.5
<b>22.5</b>	494.5	498.5	501.5	504.5	506.5	508.0	508.5	509.0	509.5
<b>25.5</b>	459.0	464.0	468.0	471.0	473.5	475.0	476.0	477.0	477.0
<b>29.0</b>	411.0	417.5	422.5	426.0	428.5	430.0	431.0	431.5	431.5
<b>33.0</b>	350.0	357.5	363.5	367.5	370.5	372.0	373.0	373.0	373.5
<b>37.5</b>	277.0	285.5	292.0	297.0	299.5	301.0	302.0	302.5	302.5
<b>42.5</b>	198.5	207.5	214.0	219.0	222.0	223.5	224.5	225.0	225.0
<b>47.5</b>	133.0	140.5	146.0	150.5	153.5	155.5	157.0	157.5	157.5
<b>55.0</b>	67.0	71.5	75.5	78.5	81.0	83.0	84.5	85.0	85.5
<b>65.0</b>	25.5	27.5	29.0	30.5	32.0	33.5	34.0	34.5	35.0
<b>75.0</b>	9.5	10.0	10.5	11.5	12.0	12.5	13.0	13.0	13.0
<b>85.0</b>	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.5	2.5
<b>90.0</b>	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
<b>95.0</b>	16.5	16.5	16.5	17.0	17.0	17.0	17.0	17.5	17.5
<b>100.0</b>	40.0	41.0	42.0	42.5	43.0	44.0	44.5	44.5	44.5
<b>105.0</b>	72.0	73.5	74.5	76.5	78.0	78.5	79.0	79.0	79.0
<b>110.0</b>	111.0	113.5	116.5	118.5	119.5	120.5	120.5	121.0	121.0
<b>115.0</b>	159.0	162.0	164.5	166.5	167.5	169.0	169.5	170.0	170.0
<b>120.0</b>	212.5	215.5	218.0	220.5	222.5	224.0	225.0	225.5	225.5
<b>125.0</b>	270.0	273.0	276.5	279.0	281.5	283.5	285.0	285.5	286.0
<b>130.0</b>	330.0	333.0	336.5	339.5	342.0	344.5	346.0	347.0	347.0
<b>135.0</b>	389.0	392.0	395.5	398.5	401.0	403.5	405.0	406.0	406.0
<b>140.0</b>	444.5	447.5	450.5	453.0	455.5	457.0	458.5	459.5	459.5
<b>145.0</b>	494.5	497.0	499.0	501.5	503.0	504.5	505.5	506.5	506.5
<b>150.0</b>	537.0	539.0	540.5	542.5	543.5	544.5	545.5	546.0	546.0
<b>155.0</b>	572.5	574.0	575.0	576.0	577.0	577.5	578.0	578.5	578.5
<b>160.0</b>	601.0	602.0	602.5	603.0	603.5	604.0	604.0	604.5	604.5
<b>165.0</b>	622.0	622.5	623.0	623.0	623.5	623.5	623.5	624.0	624.0
<b>170.0</b>	637.0	637.0	637.0	637.5	637.5	637.5	637.5	637.5	637.5
<b>175.0</b>	645.0	645.5	645.0	645.0	645.0	645.0	645.5	645.5	645.5
<b>180.0</b>	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5	647.5

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z3\_CC\_LO\_359\_U1S2\_BL.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	203.54	N.A.	8.40
0-30	399.09	N.A.	16.50
0-40	564.40	N.A.	23.40
0-60	757.78	N.A.	31.40
0-80	815.18	N.A.	33.70
0-90	821.85	N.A.	34.00
10-90	775.56	N.A.	32.10
20-40	360.86	N.A.	14.90
20-50	496.05	N.A.	20.50
40-70	233.84	N.A.	9.70
60-80	57.41	N.A.	2.40
70-80	16.95	N.A.	0.70
80-90	6.66	N.A.	0.30
90-110	96.03	N.A.	4.00
90-120	250.79	N.A.	10.40
90-130	489.27	N.A.	20.30
90-150	1094.14	N.A.	45.30
90-180	1593.73	N.A.	66.00
110-180	1497.71	N.A.	62.00
0-180	2415.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	46.29
10-20	157.25
20-30	195.55
30-40	165.31
40-50	135.19
50-60	58.19
60-70	40.46
70-80	16.95
80-90	6.66
90-100	19.99
100-110	76.04
110-120	154.77
120-130	238.47
130-140	297.58
140-150	307.29
150-160	262.93
160-170	175.36
170-180	61.31

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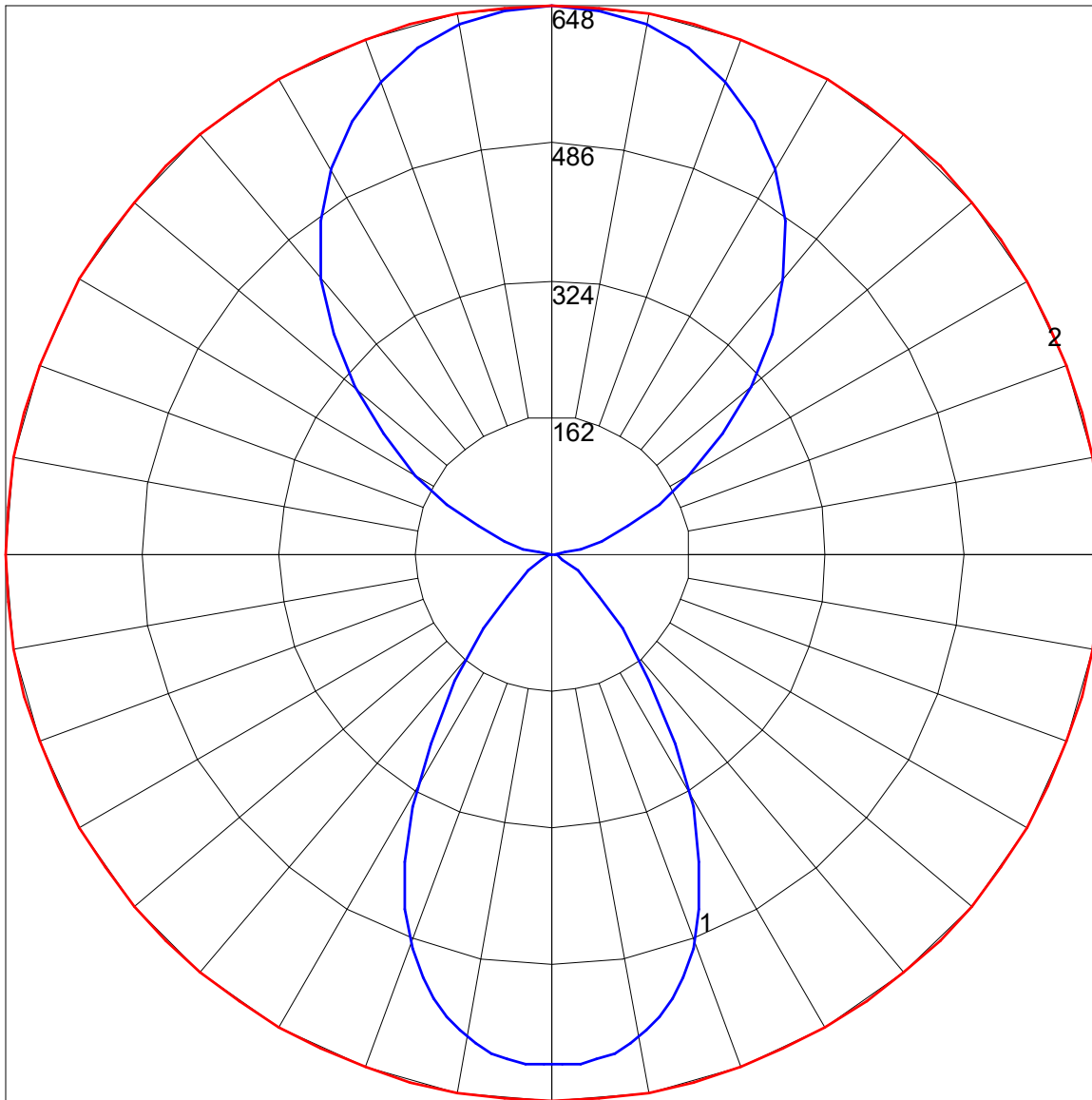
PHOTOMETRIC FILENAME : VODE\_707\_Z3\_CC\_LO\_359\_U1S2\_BL.IES

## 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	53	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 = 647.5 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.)