

**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-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	79	82	84	87
Total Lumens, 4' rail length (1219mm)	2432	2509	2560	2612
Lumens per foot (305mm)	608	627	640	653
Lumens per foot UP (305mm)	375	387	395	403
Lumens per foot DOWN (305mm)	233	240	245	250
Input Power (W), 4' rail length (1219mm)	30.8	30.8	30.8	30.8
Watts per foot (305mm)	7.8	7.8	7.8	7.8
CRI*	96	96	96	96

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).

\* R9: ~74 @ 3500K



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

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L031805803R01 (SOURCE REPORT FRO REFERENCE)  
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
[ISSUEDATE] 4/12/2018  
[MANUFAC] Vode Lighting  
[LUMCAT] 707-Z3-CC-Z-LO-359-U1S2-AL  
[LUMINAIRE] ZipThree Suspended, 48", 3500K, 90 CRI, zipper board,  
[MORE] symmetric lens up/60° symmetric lens down, 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	2560
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	30.81
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)	0.25 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	1415	2534	4768
55	888	1510	3311
65	688	1031	2252
75	531	716	1517
85	259	367	762

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>	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0
<b>1.0</b>	645.5	645.5	645.5	645.5	645.5	645.5	645.5	645.5	645.5	645.5
<b>3.0</b>	642.5	642.5	642.5	643.0	643.0	643.0	643.0	643.5	643.5	643.5
<b>5.0</b>	637.0	637.0	637.0	637.5	638.0	638.0	638.5	639.0	639.5	640.0
<b>7.0</b>	628.5	628.5	628.5	629.0	630.0	630.5	631.5	632.5	633.5	634.5
<b>9.0</b>	616.0	616.5	617.0	617.5	619.0	620.0	621.5	623.5	625.0	627.0
<b>11.0</b>	600.5	601.0	602.0	603.0	604.5	607.0	609.0	612.0	614.5	617.0
<b>13.0</b>	581.0	581.5	582.5	584.5	587.0	590.0	593.5	597.0	601.0	605.0
<b>15.0</b>	558.0	558.5	560.0	562.5	566.0	570.0	574.5	580.0	585.0	590.5
<b>17.0</b>	530.5	531.5	533.5	536.5	541.0	546.5	552.5	559.5	566.5	573.5
<b>19.5</b>	491.5	492.5	495.5	499.5	505.5	512.5	520.5	529.5	539.5	548.5
<b>22.5</b>	438.5	439.5	443.5	449.0	456.5	465.5	476.5	488.0	500.5	513.5
<b>25.5</b>	381.0	382.5	386.5	393.0	402.0	413.5	426.5	441.0	456.5	472.5
<b>29.0</b>	313.0	314.0	318.5	326.0	336.5	349.0	364.0	381.5	400.5	419.5
<b>33.0</b>	240.0	241.5	246.0	253.0	264.0	277.0	293.0	311.0	332.0	353.5
<b>37.5</b>	172.0	173.5	177.5	184.0	193.0	205.0	219.5	237.0	257.5	279.5
<b>42.5</b>	117.5	118.5	121.5	126.5	133.5	142.5	154.5	169.0	186.0	205.5
<b>47.5</b>	82.5	83.0	85.0	88.5	93.0	99.5	108.0	118.5	131.0	146.0
<b>55.0</b>	52.5	53.0	54.0	55.5	58.0	61.5	65.5	71.5	78.5	87.0
<b>65.0</b>	31.5	31.5	32.0	32.5	33.5	35.0	36.5	39.0	41.5	45.5
<b>75.0</b>	16.5	16.5	16.5	17.0	17.0	17.5	18.0	19.0	20.0	21.0
<b>85.0</b>	4.0	4.0	4.0	4.0	4.5	4.5	4.5	4.5	4.5	5.0
<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>	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.5	15.5	15.5
<b>100.0</b>	38.0	38.0	38.0	38.5	38.5	39.0	39.5	39.5	40.0	40.5
<b>105.0</b>	67.0	67.0	67.5	67.5	68.5	69.0	70.0	70.5	71.5	73.0
<b>110.0</b>	103.0	103.0	103.5	104.5	105.0	106.5	107.5	109.0	110.5	112.0
<b>115.0</b>	146.0	146.5	147.0	148.0	149.0	150.5	152.0	154.0	156.0	158.0
<b>120.0</b>	196.0	196.0	197.0	198.0	199.5	201.0	203.0	205.5	208.0	210.5
<b>125.0</b>	251.5	251.5	252.5	253.5	255.0	257.0	259.0	262.0	264.5	267.5
<b>130.0</b>	310.5	311.0	311.5	313.0	314.5	316.5	318.5	321.5	324.0	327.0
<b>135.0</b>	370.5	371.0	371.5	372.5	374.0	376.0	378.0	380.0	382.5	384.5
<b>140.0</b>	427.5	427.5	428.5	429.0	430.5	431.5	433.0	435.0	436.5	438.0
<b>145.0</b>	478.0	478.0	478.5	479.0	480.0	480.5	481.5	482.5	483.5	484.5
<b>150.0</b>	520.0	520.0	520.0	520.5	521.0	521.5	521.5	522.0	522.5	523.0
<b>155.0</b>	553.5	553.5	553.5	553.5	554.0	554.0	554.5	554.5	555.0	555.5
<b>160.0</b>	580.0	580.0	580.0	580.0	580.0	580.5	580.5	581.0	581.0	581.5
<b>165.0</b>	600.0	600.0	600.0	600.0	600.5	600.5	601.0	601.0	601.5	602.0
<b>170.0</b>	615.5	615.5	615.5	616.0	616.0	616.0	616.5	616.5	617.0	617.5
<b>175.0</b>	626.5	626.5	626.5	626.5	626.5	626.5	626.5	626.5	627.0	627.0
<b>180.0</b>	630.5	630.5	630.5	630.5	630.5	630.5	630.5	630.5	630.5	630.5

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>	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0	646.0
<b>1.0</b>	645.5	645.5	645.5	645.5	645.5	645.5	645.5	645.5	645.5
<b>3.0</b>	644.0	644.0	644.5	644.5	644.5	644.5	644.5	645.0	644.5
<b>5.0</b>	640.5	641.0	641.5	642.0	642.5	642.5	643.0	643.0	643.0
<b>7.0</b>	635.5	636.5	637.5	638.5	639.0	639.5	640.0	640.5	640.5
<b>9.0</b>	628.5	630.5	632.0	633.5	634.5	635.5	636.0	636.5	637.0
<b>11.0</b>	620.0	622.5	625.0	627.0	629.0	630.5	631.5	632.0	632.0
<b>13.0</b>	609.0	612.5	616.0	619.0	621.5	624.0	625.0	626.0	626.5
<b>15.0</b>	596.0	601.0	606.0	609.5	613.0	616.0	618.0	619.0	619.5

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**CANDELA TABULATION - (Cont.)**

<b>17.0</b>	580.5	587.5	593.5	598.5	603.0	606.5	609.0	610.5	611.0
<b>19.5</b>	558.0	567.0	575.0	582.0	588.0	592.5	595.5	597.5	598.5
<b>22.5</b>	526.0	538.0	549.0	558.5	566.0	572.5	576.5	579.0	580.0
<b>25.5</b>	489.0	504.0	518.0	530.0	540.0	548.0	553.5	556.5	557.5
<b>29.0</b>	439.5	458.5	475.5	491.0	503.5	513.5	520.5	524.5	526.0
<b>33.0</b>	376.5	399.0	420.5	439.5	455.0	467.5	475.5	480.5	482.5
<b>37.5</b>	304.0	328.5	352.0	374.0	392.0	406.5	416.5	422.5	424.5
<b>42.5</b>	228.0	251.5	275.0	297.5	316.0	332.0	342.5	349.0	351.0
<b>47.5</b>	164.0	183.5	204.0	224.5	242.0	257.0	267.5	274.0	276.0
<b>55.0</b>	98.0	110.0	123.0	137.0	149.5	161.0	169.5	175.0	177.0
<b>65.0</b>	49.5	55.0	61.0	67.0	73.5	79.5	84.5	87.5	89.0
<b>75.0</b>	22.5	24.5	26.5	29.0	31.5	33.5	35.5	37.0	37.0
<b>85.0</b>	5.0	5.0	5.5	5.5	6.0	6.0	6.5	6.5	6.5
<b>90.0</b>	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
<b>95.0</b>	15.5	15.5	15.5	15.5	15.5	15.5	15.0	15.0	15.0
<b>100.0</b>	41.0	41.5	42.0	42.5	42.5	42.5	42.5	42.5	42.5
<b>105.0</b>	74.0	74.5	76.0	76.5	77.0	77.5	78.0	78.0	78.0
<b>110.0</b>	114.0	115.5	117.0	118.0	119.0	120.0	120.5	120.5	121.0
<b>115.0</b>	160.5	162.5	164.5	166.0	167.5	168.5	169.0	169.5	169.5
<b>120.0</b>	213.0	215.5	218.0	219.5	221.0	222.5	223.5	224.0	224.5
<b>125.0</b>	270.5	273.0	275.0	277.0	278.5	280.0	281.0	282.0	282.5
<b>130.0</b>	329.5	332.0	334.0	335.5	337.0	338.5	339.5	340.5	341.0
<b>135.0</b>	387.0	388.5	390.0	391.5	393.0	394.0	395.5	397.0	397.5
<b>140.0</b>	439.5	440.5	441.5	443.0	444.0	445.5	447.0	448.0	448.5
<b>145.0</b>	485.0	486.0	487.0	488.0	489.0	490.5	491.5	492.5	493.5
<b>150.0</b>	524.0	524.5	525.0	526.0	527.5	528.5	530.0	530.5	531.0
<b>155.0</b>	556.0	556.5	557.5	558.5	559.5	560.5	561.5	562.0	562.5
<b>160.0</b>	582.0	583.0	583.5	584.5	585.0	586.0	586.5	587.0	587.5
<b>165.0</b>	602.5	603.0	603.5	604.5	605.0	605.5	606.0	606.5	606.5
<b>170.0</b>	617.5	618.0	618.5	619.0	619.0	619.5	620.0	620.0	620.0
<b>175.0</b>	627.0	627.0	627.5	627.5	627.5	627.5	627.5	627.5	628.0
<b>180.0</b>	630.5	630.5	630.5	630.5	630.5	630.5	630.5	630.5	630.5

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	215.58	N.A.	8.40
0-30	421.99	N.A.	16.50
0-40	602.12	N.A.	23.50
0-60	851.77	N.A.	33.30
0-80	963.95	N.A.	37.60
0-90	981.09	N.A.	38.30
10-90	931.87	N.A.	36.40
20-40	386.54	N.A.	15.10
20-50	551.25	N.A.	21.50
40-70	322.55	N.A.	12.60
60-80	112.18	N.A.	4.40
70-80	39.28	N.A.	1.50
80-90	17.14	N.A.	0.70
90-110	98.09	N.A.	3.80
90-120	256.10	N.A.	10.00
90-130	495.40	N.A.	19.30
90-150	1093.38	N.A.	42.70
90-180	1579.21	N.A.	61.70
110-180	1481.12	N.A.	57.80
0-180	2560.3	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	49.23
10-20	166.36
20-30	206.41
30-40	180.13
40-50	164.71
50-60	84.94
60-70	72.90
70-80	39.28
80-90	17.14
90-100	19.50
100-110	78.59
110-120	158.01
120-130	239.30
130-140	295.58
140-150	302.40
150-160	256.23
160-170	170.05
170-180	59.55

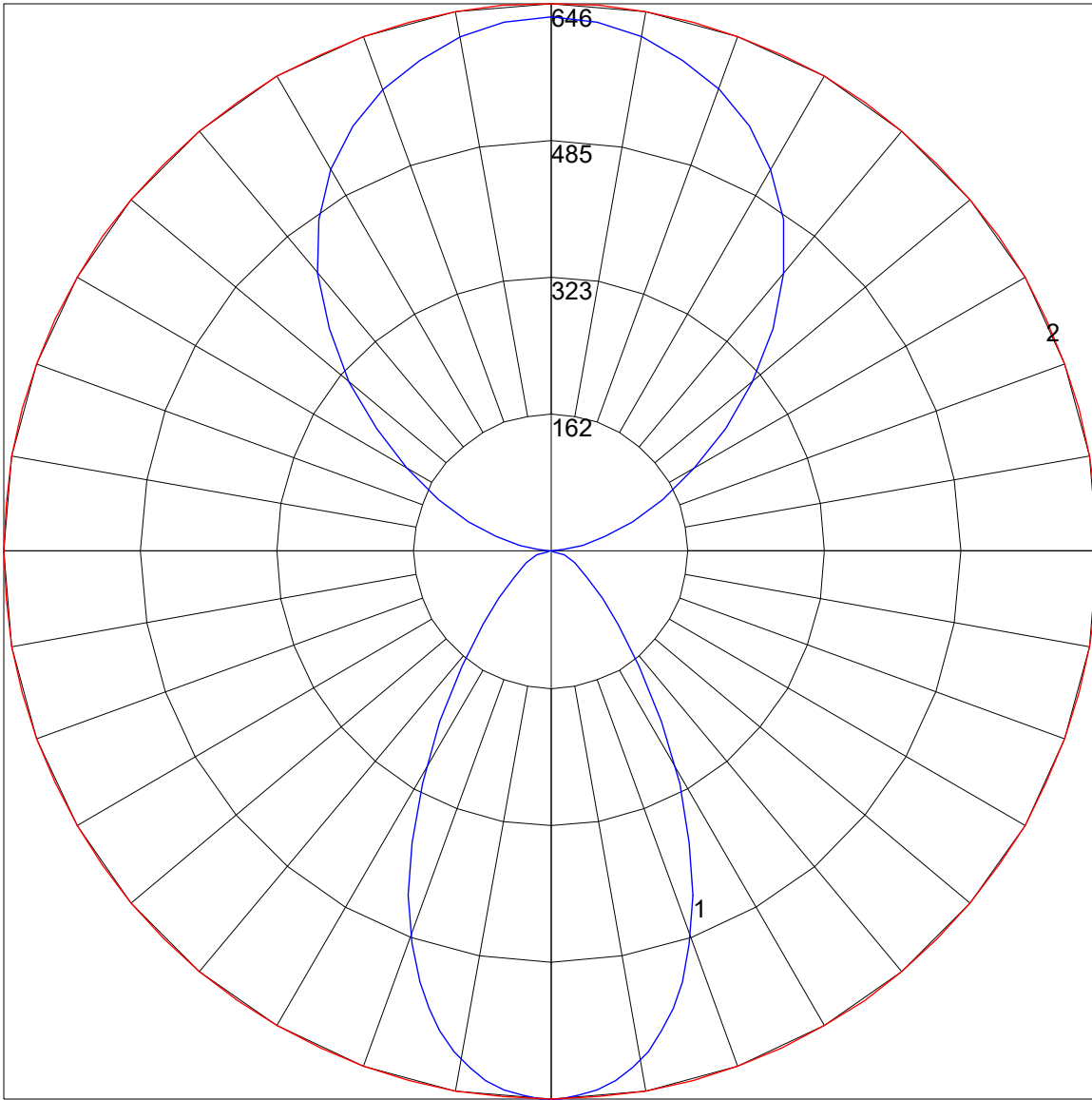
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	96	92	88	85	87	83	80	78	68	66	64	54	53	51	41	40	39	33
2	88	81	75	70	80	74	69	65	61	57	54	48	46	44	37	36	34	29
3	81	72	65	60	73	66	60	55	54	50	46	43	41	38	33	32	30	26
4	74	64	57	51	67	59	52	47	49	44	40	39	36	33	30	28	27	23
5	68	57	50	44	62	53	46	41	44	39	35	36	32	29	28	26	24	20
6	63	52	44	39	57	48	41	36	40	35	31	32	29	26	26	23	21	18
7	59	47	40	34	53	43	37	32	36	31	28	30	26	24	24	21	19	17
8	54	43	36	31	50	40	33	29	33	28	25	27	24	21	22	19	18	15
9	51	39	32	27	46	36	30	26	31	26	23	25	22	19	20	18	16	14
10	48	36	29	25	43	34	27	23	28	24	21	24	20	18	19	17	15	13

POLAR GRAPH



Maximum Candela = 646 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)