

**IES Report**

**ZipThree® | Ceiling Cable | 707 | Symmetric, up | 40° Symmetric, down | 90 CRI | LO**

707-Z3-XX-4-48-CC-XX-XX-XX-X-0-Z-LO-359-U1S1-0-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	76	78	80	81
Total Lumens, 4' rail length (1219mm)	2316	2389	2437	2486
Lumens per foot (305mm)	579	597	609	622
Lumens per foot UP (305mm)	382	394	402	411
Lumens per foot DOWN (305mm)	197	203	207	211
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\_U1S1\_AL.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L031805801R01 (SOURCE REPORT FOR 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-U1S1-AL  
 [LUMINAIRE] ZipThree Suspended, 48", 3500K, 90 CRI, zipper board,  
 [MORE] symmetric lens up/40° 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	2437
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
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	1129	1979	4178
55	769	1258	2853
65	622	895	1910
75	482	648	1291
85	227	294	645

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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>	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5
<b>1.0</b>	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.5	598.5	598.5
<b>3.0</b>	593.5	593.5	593.5	593.5	594.0	594.0	594.5	595.0	595.0	595.5
<b>5.0</b>	583.5	584.0	584.0	584.5	585.0	586.0	587.0	587.5	588.5	589.5
<b>7.0</b>	569.5	570.0	570.5	571.5	572.5	574.0	575.5	577.5	579.0	581.0
<b>9.0</b>	551.5	551.5	552.5	554.0	555.5	558.0	560.5	563.5	566.5	569.5
<b>11.0</b>	528.5	529.0	530.5	532.5	535.0	538.5	542.0	546.5	551.0	556.0
<b>13.0</b>	502.5	503.0	504.5	507.5	511.0	515.5	520.5	526.5	532.5	539.0
<b>15.0</b>	473.0	473.5	475.5	479.0	483.5	489.5	496.0	503.5	512.0	520.0
<b>17.0</b>	441.0	441.5	444.0	448.0	454.0	461.0	469.0	478.0	488.0	498.5
<b>19.5</b>	398.0	399.0	402.0	407.0	413.5	422.0	432.0	443.5	455.5	468.0
<b>22.5</b>	345.0	346.0	349.5	355.0	363.0	373.0	385.0	398.0	413.0	428.0
<b>25.5</b>	292.0	293.5	297.0	303.5	312.0	323.0	336.0	351.0	368.0	386.0
<b>29.0</b>	235.0	236.0	240.0	246.5	255.5	266.5	280.0	296.0	315.0	334.5
<b>33.0</b>	179.0	180.0	183.5	189.5	198.0	208.5	221.5	237.5	255.5	276.0
<b>37.5</b>	130.0	131.0	134.0	138.5	145.5	154.5	166.0	180.0	196.5	215.5
<b>42.5</b>	92.0	92.5	95.0	98.5	103.5	110.5	119.0	130.0	143.5	159.0
<b>47.5</b>	67.5	68.0	69.5	71.5	75.5	80.0	86.5	94.0	104.0	115.5
<b>55.0</b>	45.5	46.0	46.5	48.0	49.5	52.5	55.5	60.0	65.5	72.5
<b>65.0</b>	28.5	28.5	29.0	29.5	30.0	31.0	32.5	34.5	36.5	39.5
<b>75.0</b>	15.0	15.0	15.0	15.5	15.5	16.0	16.5	17.0	18.0	19.0
<b>85.0</b>	3.5	3.5	3.5	3.5	3.5	4.0	4.0	4.0	4.0	4.0
<b>90.0</b>	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
<b>95.0</b>	13.0	13.0	13.0	13.5	13.5	13.5	13.5	13.5	14.0	14.0
<b>100.0</b>	35.0	35.5	35.5	35.5	36.0	36.5	37.5	38.0	39.0	39.5
<b>105.0</b>	65.5	65.5	66.0	66.5	67.5	68.0	69.5	70.5	71.5	73.0
<b>110.0</b>	103.0	103.5	103.5	104.5	105.5	107.0	108.0	110.0	111.5	113.5
<b>115.0</b>	147.5	148.0	148.5	149.5	151.0	152.5	154.0	156.0	158.5	161.0
<b>120.0</b>	199.0	199.5	200.0	201.0	202.5	204.5	207.0	209.5	212.0	214.5
<b>125.0</b>	256.5	257.0	257.5	259.0	260.5	262.5	265.0	267.5	270.5	273.5
<b>130.0</b>	317.5	318.0	318.5	320.0	321.5	323.5	326.0	329.0	332.0	334.5
<b>135.0</b>	379.0	379.5	380.0	381.5	383.0	385.0	387.0	389.0	391.5	394.0
<b>140.0</b>	437.5	437.5	438.0	439.0	440.5	442.0	443.5	445.0	446.5	448.0
<b>145.0</b>	489.0	489.0	489.5	490.0	490.5	491.5	492.5	493.5	494.5	495.5
<b>150.0</b>	531.5	531.5	531.5	532.0	532.0	532.5	533.0	533.5	534.0	535.0
<b>155.0</b>	565.0	565.0	565.5	565.5	565.5	566.0	566.0	566.5	567.0	567.5
<b>160.0</b>	592.0	592.0	592.0	592.0	592.0	592.5	592.5	593.0	593.0	593.5
<b>165.0</b>	612.5	612.5	612.5	612.5	612.5	613.0	613.0	613.5	613.5	614.0
<b>170.0</b>	627.5	627.5	628.0	628.0	628.0	628.0	628.5	628.5	628.5	629.0
<b>175.0</b>	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.5	638.5
<b>180.0</b>	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5

**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>0.0</b>	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5
<b>1.0</b>	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5
<b>3.0</b>	596.0	596.5	596.5	597.0	597.0	597.5	597.5	597.5	597.5
<b>5.0</b>	590.5	592.0	593.0	593.5	594.5	595.0	595.5	595.5	595.5
<b>7.0</b>	583.5	585.0	587.0	588.5	590.0	591.5	592.0	593.0	593.0
<b>9.0</b>	573.0	576.5	579.5	582.0	584.5	586.5	588.0	589.0	589.0
<b>11.0</b>	560.5	565.5	570.0	574.0	577.5	580.5	582.5	583.5	584.0
<b>13.0</b>	546.0	552.0	558.5	564.0	568.5	572.5	575.5	577.5	578.0
<b>15.0</b>	528.5	537.0	545.0	552.0	558.5	563.5	567.0	569.5	570.5

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**CANDELA TABULATION - (Cont.)**

<b>17.0</b>	509.0	519.5	529.0	538.5	546.0	553.0	557.5	560.5	561.5
<b>19.5</b>	481.5	494.5	507.0	519.0	528.5	537.0	543.5	547.0	548.5
<b>22.5</b>	445.0	461.0	477.0	491.5	504.0	515.0	523.0	528.0	529.5
<b>25.5</b>	405.0	424.0	443.0	460.5	476.0	488.5	499.0	505.0	507.0
<b>29.0</b>	356.0	378.0	399.0	419.5	438.0	454.0	465.5	473.0	475.5
<b>33.0</b>	298.5	322.0	345.5	369.0	390.0	408.0	421.5	429.5	433.0
<b>37.5</b>	237.0	260.0	284.0	308.5	330.5	350.0	364.5	373.5	377.0
<b>42.5</b>	177.5	197.5	219.5	242.0	263.0	281.5	296.5	305.5	309.0
<b>47.5</b>	129.5	145.5	163.0	182.0	199.5	216.0	229.0	237.0	240.5
<b>55.0</b>	81.0	90.5	101.0	113.0	124.5	135.0	144.5	150.0	152.5
<b>65.0</b>	43.0	47.5	52.0	57.5	62.5	67.5	71.5	74.5	75.5
<b>75.0</b>	20.0	21.5	23.0	25.0	27.0	28.5	30.0	31.0	31.5
<b>85.0</b>	4.5	4.5	4.5	5.0	5.0	5.0	5.5	5.5	5.5
<b>90.0</b>	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
<b>95.0</b>	14.0	14.0	14.5	15.0	15.0	15.0	15.0	15.0	15.0
<b>100.0</b>	40.5	41.0	41.5	42.0	42.5	43.0	43.0	43.0	43.0
<b>105.0</b>	74.0	75.5	76.5	77.5	78.0	78.5	79.0	79.0	79.0
<b>110.0</b>	115.0	117.0	118.5	120.0	121.0	122.0	122.5	122.5	122.5
<b>115.0</b>	163.5	165.5	167.5	169.5	170.5	171.5	172.5	173.0	173.0
<b>120.0</b>	217.5	220.5	222.5	224.5	226.5	227.5	228.5	229.0	229.5
<b>125.0</b>	276.5	279.5	282.0	284.0	285.5	287.0	288.0	289.0	289.0
<b>130.0</b>	337.5	340.0	342.0	344.0	345.0	346.5	348.0	349.0	349.5
<b>135.0</b>	396.0	398.0	399.5	401.0	402.5	404.0	405.0	406.0	406.5
<b>140.0</b>	449.5	451.0	452.0	453.5	454.5	455.5	457.0	458.0	458.5
<b>145.0</b>	496.0	497.0	498.0	499.0	500.0	501.5	502.5	503.5	504.0
<b>150.0</b>	535.5	536.0	537.0	538.0	539.0	540.0	541.0	541.5	542.0
<b>155.0</b>	568.0	568.5	569.0	570.0	571.0	572.0	572.5	573.0	573.5
<b>160.0</b>	594.0	594.5	595.0	596.0	596.5	597.5	598.0	598.5	598.5
<b>165.0</b>	614.5	615.0	615.5	616.0	616.5	617.0	617.5	617.5	617.5
<b>170.0</b>	629.5	629.5	630.0	630.0	630.5	631.0	631.0	631.0	631.0
<b>175.0</b>	638.5	638.5	638.5	638.5	639.0	639.0	639.0	639.0	639.0
<b>180.0</b>	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	192.28	N.A.	7.90
0-30	365.59	N.A.	15.00
0-40	512.27	N.A.	21.00
0-60	716.55	N.A.	29.40
0-80	812.74	N.A.	33.30
0-90	827.69	N.A.	34.00
10-90	782.49	N.A.	32.10
20-40	319.99	N.A.	13.10
20-50	453.87	N.A.	18.60
40-70	266.29	N.A.	10.90
60-80	96.19	N.A.	3.90
70-80	34.18	N.A.	1.40
80-90	14.95	N.A.	0.60
90-110	97.07	N.A.	4.00
90-120	257.66	N.A.	10.60
90-130	502.36	N.A.	20.60
90-150	1114.14	N.A.	45.70
90-180	1609.8	N.A.	66.00
110-180	1512.73	N.A.	62.10
0-180	2437.5	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	45.20
10-20	147.07
20-30	173.31
30-40	146.68
40-50	133.88
50-60	70.41
60-70	62.01
70-80	34.18
80-90	14.95
90-100	18.50
100-110	78.57
110-120	160.58
120-130	244.71
130-140	302.56
140-150	309.22
150-160	261.61
160-170	173.40
170-180	60.65

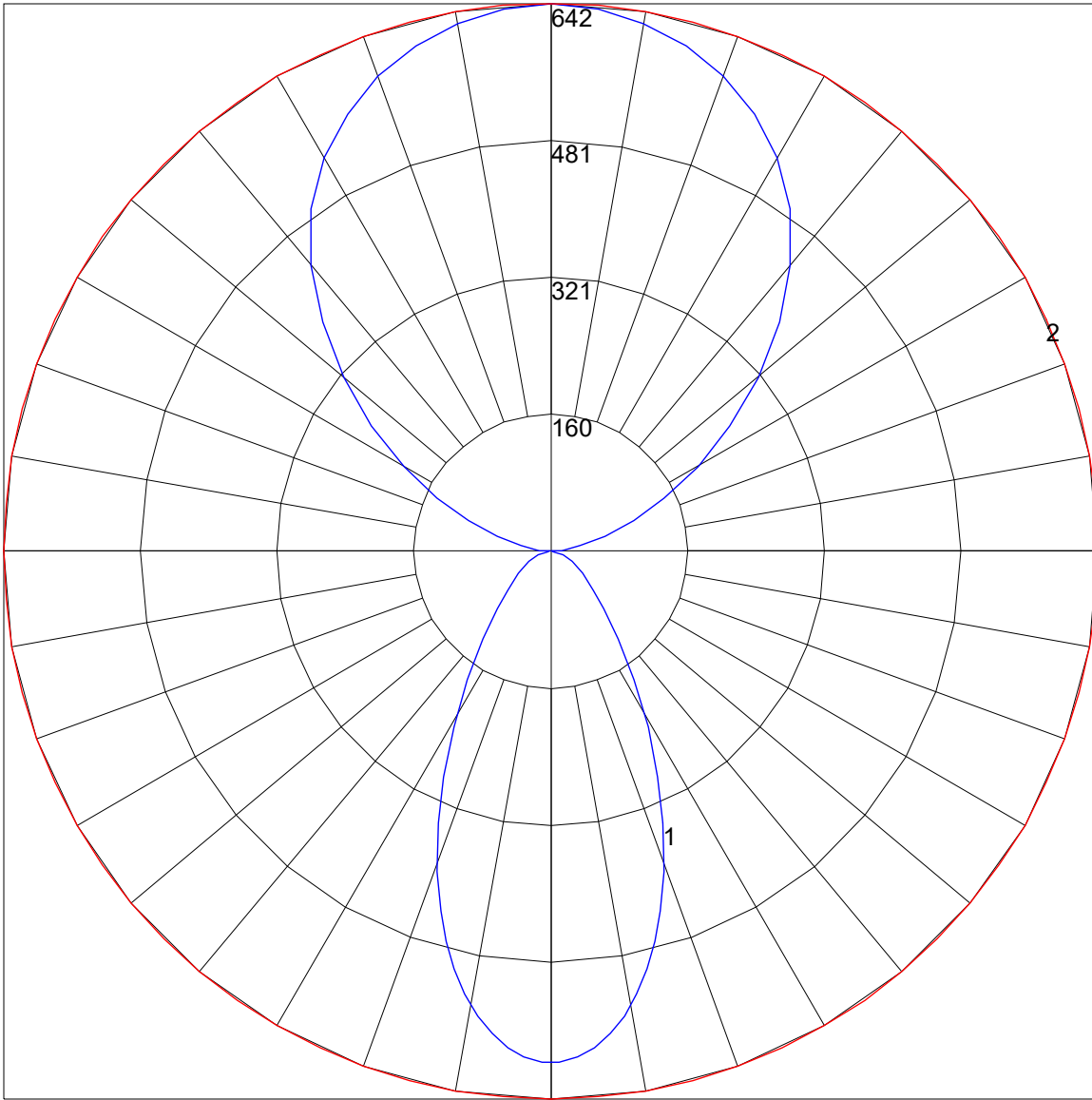
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34
1	95	91	87	84	85	82	79	76	66	64	62	51	50	49	37	37	36	30
2	87	80	74	70	78	72	68	64	58	55	52	46	43	42	34	32	31	26
3	80	71	64	59	72	64	59	54	52	48	45	41	38	36	30	29	27	23
4	73	63	56	50	66	58	51	46	47	42	39	37	34	31	28	26	24	20
5	67	57	49	44	61	52	45	40	42	38	34	34	30	28	25	23	22	18
6	62	51	44	38	56	47	40	35	38	34	30	31	27	25	23	21	20	16
7	58	46	39	34	52	42	36	31	35	30	27	28	25	22	22	19	18	15
8	54	42	35	30	49	39	32	28	32	27	24	26	23	20	20	18	16	14
9	50	39	32	27	45	36	29	25	30	25	22	24	21	18	19	16	15	13
10	47	36	29	24	43	33	27	23	27	23	20	22	19	17	17	15	14	12

POLAR GRAPH



Maximum Candela = 641.5 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.)