

**IES Report**

**ZipThree® | 707 | 85° Asymmetric , downlight only | 90 CRI | LO**

707-Z3-4-48-XX-XX-X-0-Z-LO-359-A1-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	61	63	65	68
Total Lumens, 4' rail length (1219mm)	938	968	987	1007
Lumens per foot (305mm)	234	242	247	252
Input Power (W), 4' rail length (1219mm)	15.4	15.4	15.4	15.4
Watts per foot (305mm)	3.9	3.9	3.9	3.9
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](#).



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707\_Z3\_LO\_359\_A1.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L071704240 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
[ISSUEDATE] 11/1/2017  
[MANUFAC] Vode Lighting  
[LUMCAT] 707-Z3-48-Z-LO-359-A1  
[LUMINAIRE] ZipThree LED, 48", 3500K, 90 CRI, zipper board,  
[MORE] 85 deg asymmetric down, low output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	987
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	15.41
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.72
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.06 ft
Luminous Width (90-270)	3.96 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	26376	25397	16583
55	23945	23140	14850
65	20427	19553	12398
75	16678	15786	9543
85	13242	11653	6356

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>	396.78	396.78	396.78	396.78	396.78	396.78	396.78	396.78	396.78	396.78
<b>5</b>	444.72	444.72	444.21	443.19	442.17	440.64	438.60	436.56	434.01	431.46
<b>10</b>	488.58	488.07	487.05	485.52	483.48	480.93	477.36	473.79	469.20	463.59
<b>15</b>	516.12	515.61	514.59	513.06	510.00	506.94	502.86	498.27	492.66	486.03
<b>20</b>	528.87	528.36	527.34	525.30	523.26	519.69	515.61	510.51	504.90	497.25
<b>25</b>	527.85	527.85	526.83	525.30	522.75	519.69	516.12	511.02	505.41	498.27
<b>30</b>	515.10	515.10	514.08	512.55	510.51	507.96	504.39	499.80	494.70	488.58
<b>35</b>	491.13	491.13	490.62	489.09	487.56	485.01	482.46	478.38	473.79	467.67
<b>40</b>	456.45	456.45	455.94	454.92	453.90	451.86	449.31	446.25	442.17	437.07
<b>45</b>	412.08	412.08	411.57	411.06	410.04	408.51	406.47	403.92	400.86	396.78
<b>50</b>	360.06	360.06	359.55	359.04	358.02	357.00	355.47	353.43	350.88	347.82
<b>55</b>	303.45	303.45	302.94	302.94	301.92	300.90	299.88	297.84	295.80	293.25
<b>60</b>	245.82	245.82	245.82	245.31	244.80	243.78	242.25	241.23	239.19	237.15
<b>65</b>	190.74	190.23	190.23	189.72	189.21	188.70	187.68	186.15	184.62	182.58
<b>70</b>	140.76	140.25	140.25	140.25	139.74	139.23	138.21	137.19	135.66	134.13
<b>75</b>	95.37	95.37	94.86	94.86	94.35	93.84	93.33	92.31	91.29	90.27
<b>80</b>	56.61	56.61	56.61	56.10	56.10	55.59	54.57	54.06	53.04	52.02
<b>85</b>	25.50	25.50	25.50	25.50	24.99	24.48	23.97	23.46	22.95	22.44
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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>	<u>95</u>
<b>0</b>	396.78	396.78	396.78	396.78	396.78	396.78	396.78	396.78	396.78	396.78
<b>5</b>	428.40	424.83	421.26	417.18	413.61	409.02	404.94	400.35	395.76	391.17
<b>10</b>	457.98	451.35	444.21	436.56	428.40	419.73	410.55	400.86	391.17	381.48
<b>15</b>	478.38	469.71	460.02	449.31	438.09	425.34	412.08	397.80	383.01	368.22
<b>20</b>	489.60	479.40	468.18	455.94	442.17	426.36	409.53	391.68	371.79	352.41
<b>25</b>	490.11	479.91	468.18	454.41	439.62	421.77	401.88	380.46	356.49	333.03
<b>30</b>	480.42	470.73	459.51	445.23	429.93	410.55	388.62	364.65	337.62	310.59
<b>35</b>	461.04	451.86	441.15	428.40	412.59	393.21	370.26	344.76	315.18	285.09
<b>40</b>	430.95	423.30	413.61	401.88	387.09	368.73	345.78	319.26	288.66	257.04
<b>45</b>	391.68	385.05	376.89	366.18	353.43	336.09	314.67	288.66	259.08	224.91
<b>50</b>	343.74	338.13	331.50	322.83	311.61	297.33	276.93	252.96	224.91	192.27
<b>55</b>	289.68	285.60	280.50	273.36	264.18	251.94	235.62	214.20	188.19	159.63
<b>60</b>	234.09	230.52	226.44	220.83	213.69	203.49	190.23	171.87	151.47	126.99
<b>65</b>	180.54	177.48	173.91	170.34	164.22	156.57	146.37	132.60	115.77	97.41
<b>70</b>	132.09	129.54	126.48	122.91	118.83	112.71	105.57	95.88	83.13	69.87
<b>75</b>	88.74	86.70	84.15	81.60	78.54	74.46	69.36	62.73	54.57	46.41
<b>80</b>	51.00	49.98	48.45	46.92	44.88	42.33	39.27	35.19	30.60	26.01
<b>85</b>	21.42	20.91	20.40	19.38	18.36	17.34	15.81	14.28	12.24	10.71
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles  
 Angles

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
<b>0</b>	396.78	396.78	396.78	396.78	396.78	396.78	396.78	396.78	396.78	396.78
<b>5</b>	387.09	381.99	377.91	373.32	369.24	365.16	361.59	358.02	354.45	351.90
<b>10</b>	371.28	361.08	351.39	341.70	332.01	323.34	315.18	307.53	300.39	293.76
<b>15</b>	352.92	337.62	322.32	307.53	292.74	279.48	267.75	256.53	245.82	237.15
<b>20</b>	332.01	310.59	291.21	271.83	253.47	237.15	221.85	208.59	196.35	186.66
<b>25</b>	308.04	283.05	258.57	236.64	214.71	196.86	180.54	166.77	154.53	144.84
<b>30</b>	282.03	252.45	225.93	201.96	179.01	160.65	144.84	131.07	120.36	111.18
<b>35</b>	253.98	221.85	193.80	169.32	146.88	129.03	114.75	102.00	92.82	84.66

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**CANDELA TABULATION - (Cont.)**

<b>40</b>	224.40	191.25	163.20	139.23	118.32	102.51	89.76	79.05	70.89	64.26
<b>45</b>	192.78	161.67	135.15	113.22	94.35	80.58	69.87	61.20	54.57	49.98
<b>50</b>	162.18	133.11	109.14	90.27	74.46	62.73	54.06	47.43	42.84	39.27
<b>55</b>	132.09	107.10	86.19	70.38	58.14	48.96	42.33	37.23	33.66	31.11
<b>60</b>	104.04	84.15	67.32	54.57	44.37	37.74	33.15	29.58	27.03	24.99
<b>65</b>	79.05	63.24	50.49	41.82	34.17	29.07	25.50	22.95	20.91	19.89
<b>70</b>	57.12	45.90	36.72	30.09	24.99	21.42	18.87	16.83	15.81	14.79
<b>75</b>	38.25	30.60	24.99	20.40	16.83	14.79	13.26	11.73	10.71	10.20
<b>80</b>	21.93	17.85	14.28	12.24	10.20	8.67	7.65	7.14	6.63	6.12
<b>85</b>	9.18	7.65	6.12	5.10	4.59	4.08	3.57	3.57	3.06	3.06
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Angles**      **Horizontal Angles**

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
<b>0</b>	396.78	396.78	396.78	396.78	396.78	396.78	396.78
<b>5</b>	349.35	346.80	345.27	343.74	342.72	342.21	341.70
<b>10</b>	288.15	283.56	279.48	276.42	274.38	272.85	272.34
<b>15</b>	229.50	222.87	217.77	213.69	210.63	209.10	208.59
<b>20</b>	177.99	171.36	165.75	161.67	158.61	156.57	156.06
<b>25</b>	136.17	130.05	124.44	120.87	117.81	116.28	115.77
<b>30</b>	103.53	97.92	93.33	89.76	87.21	86.19	85.68
<b>35</b>	78.54	73.44	69.87	66.81	65.28	63.75	63.75
<b>40</b>	59.67	55.59	52.53	50.49	49.47	48.45	48.45
<b>45</b>	45.90	43.35	41.31	40.29	39.27	38.76	38.25
<b>50</b>	36.72	34.68	33.66	32.64	32.13	31.62	31.62
<b>55</b>	29.58	28.05	27.54	26.52	26.01	26.01	26.01
<b>60</b>	23.97	22.95	22.44	21.93	21.42	21.42	20.91
<b>65</b>	18.87	17.85	17.34	17.34	16.83	16.83	16.83
<b>70</b>	13.77	13.26	12.75	12.75	12.24	12.24	12.24
<b>75</b>	9.69	9.18	8.67	8.67	8.67	8.16	8.16
<b>80</b>	5.61	5.61	5.61	5.10	5.10	5.10	5.10
<b>85</b>	3.06	2.55	2.55	2.55	2.55	2.55	2.04
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	142.22	N.A.	14.40
0-30	296.97	N.A.	30.10
0-40	478.46	N.A.	48.50
0-60	811.15	N.A.	82.20
0-80	972.00	N.A.	98.50
0-90	987.30	N.A.	100.00
10-90	949.92	N.A.	96.20
20-40	336.23	N.A.	34.10
20-50	516.92	N.A.	52.40
40-70	437.91	N.A.	44.40
60-80	160.85	N.A.	16.30
70-80	55.63	N.A.	5.60
80-90	15.30	N.A.	1.50
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	987.30	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	37.37
10-20	104.85
20-30	154.74
30-40	181.49
40-50	180.69
50-60	152.01
60-70	105.22
70-80	55.63
80-90	15.30
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

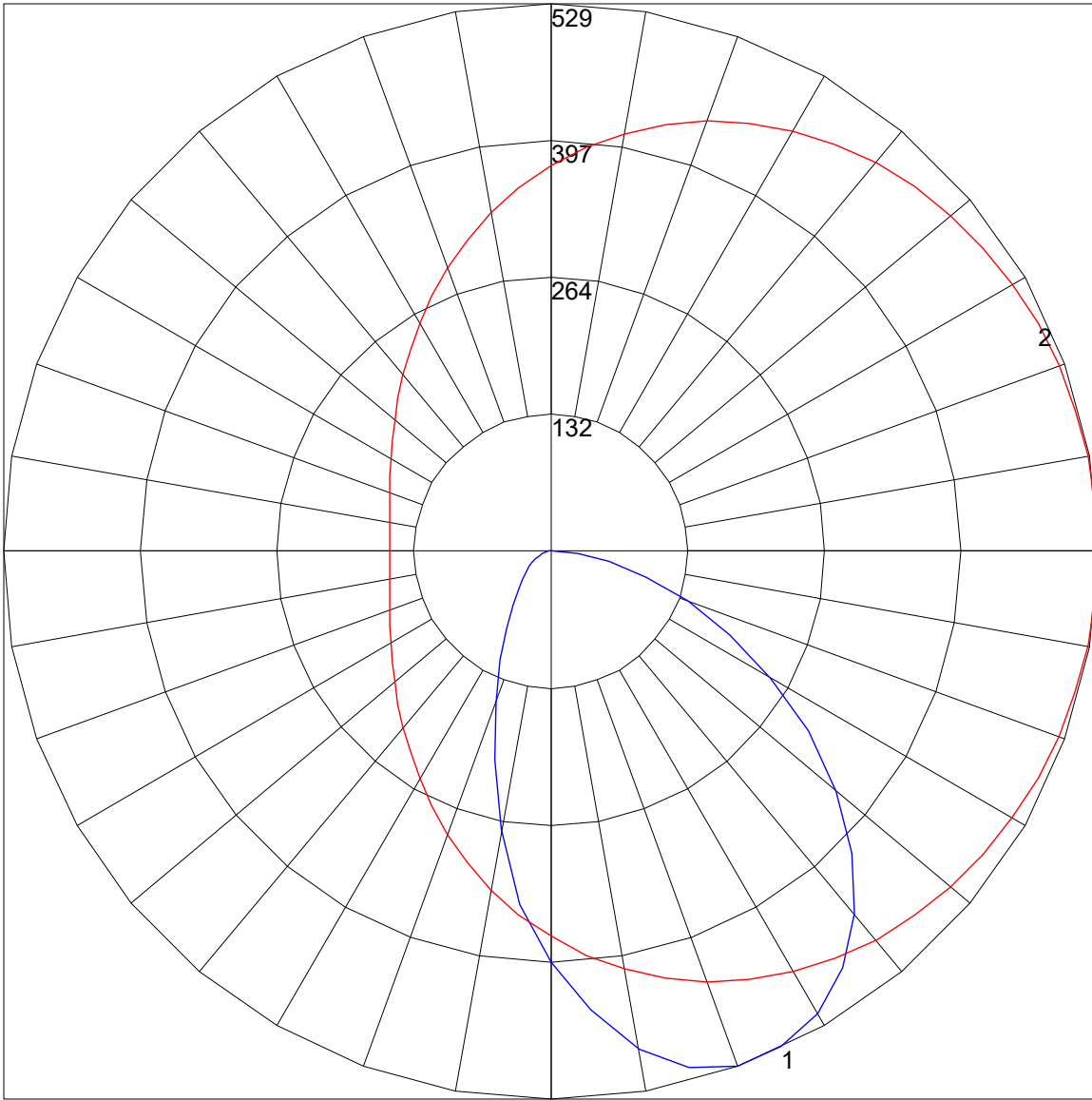
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	71	58	50	43	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 528.87 Located At Horizontal Angle = 0, Vertical Angle = 20  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)