

IES Report

ZipThree® | 707 | 85° Asymmetric , downlight only | 80 CRI | LO

707-Z3-4-48-XX-XX-X-0-Z-LO-35-A1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	86	89	91	91
Total Lumens, 4' rail length (1219mm)	1280	1321	1347	1347
Lumens per foot (305mm)	320	330	337	337
Input Power (W), 4' rail length (1219mm)	14.9	14.9	14.9	14.9
Watts per foot (305mm)	3.8	3.8	3.8	3.8
CRI	82	82	82	82

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_35_A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L121911543 (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-LO-35-A1-AL
[LUMINAIRE] ZipThree LED, 48", 3500K, 80 CRI, zipper board, 85° asymmetric 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	1347
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	14.89
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.70
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.04 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	53024	51307	32856
55	47472	46380	28757
65	39863	38750	23640
75	31940	30426	18014
85	22476	20229	11238

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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>
0	552.74	552.74	552.74	552.74	552.74	552.74	552.74	552.74	552.74	552.74
5	615.96	615.38	614.80	613.64	611.90	610.16	607.84	604.94	601.46	597.40
10	672.80	672.80	671.64	669.90	666.42	662.94	658.30	653.08	646.70	639.74
15	709.92	709.34	708.18	705.28	701.80	697.16	691.94	684.98	676.86	668.16
20	727.32	726.74	725.00	722.68	719.20	713.98	708.18	701.22	692.52	682.66
25	724.42	725.00	723.26	720.94	717.46	713.40	707.60	701.22	691.94	682.66
30	706.44	705.86	704.70	702.38	699.48	696.00	690.78	684.98	676.86	667.58
35	671.06	671.06	669.90	668.16	665.84	662.94	658.88	653.66	646.70	638.00
40	619.44	619.44	618.28	617.70	615.96	613.64	610.74	606.68	600.88	594.50
45	555.06	555.06	554.48	553.90	552.74	551.58	549.26	546.94	542.30	537.08
50	481.40	481.40	480.82	480.24	479.66	478.50	477.34	475.60	472.70	468.64
55	403.10	403.10	402.52	402.52	401.94	401.36	400.20	399.04	396.72	393.82
60	324.22	324.22	324.22	323.64	323.64	322.48	321.90	320.74	319.00	316.68
65	249.40	249.40	249.40	249.40	248.82	248.24	247.08	246.50	244.76	242.44
70	182.70	182.70	182.70	182.12	181.54	180.96	180.38	179.22	178.06	176.32
75	122.38	122.38	122.38	121.80	121.80	121.22	120.06	119.48	118.32	116.58
80	71.34	71.34	70.76	70.76	70.18	70.18	69.60	68.44	67.28	66.12
85	29.00	29.00	29.00	28.42	28.42	28.42	27.84	27.26	26.68	26.10
90	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>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>
0	552.74	552.74	552.74	552.74	552.74	552.74	552.74	552.74	552.74	552.74
5	593.92	589.28	584.64	579.42	574.20	568.98	563.18	556.80	551.00	545.20
10	631.62	622.92	613.64	603.78	593.34	581.74	569.56	556.80	544.62	530.70
15	657.72	645.54	632.78	618.86	603.78	586.96	569.56	551.00	531.86	512.14
20	670.48	657.14	642.06	625.24	606.68	585.22	563.18	539.98	514.46	488.94
25	670.48	655.98	639.74	621.18	599.72	575.94	549.84	522.00	491.26	459.94
30	655.98	642.06	625.82	606.68	584.06	557.96	529.54	498.22	463.42	426.88
35	628.14	614.80	599.72	581.16	557.96	530.70	501.12	467.48	429.20	389.76
40	585.80	574.20	560.28	541.72	520.26	494.16	463.42	429.20	389.76	348.58
45	530.12	520.84	508.66	492.42	472.70	447.18	418.18	383.96	343.94	304.50
50	463.42	455.30	444.86	431.52	414.12	391.50	363.66	332.34	296.38	258.10
55	389.18	383.38	374.68	363.66	348.58	328.86	305.08	276.08	244.18	211.70
60	313.20	307.98	301.60	292.32	280.14	263.90	243.60	220.40	192.56	168.20
65	240.12	236.06	230.26	223.30	213.44	201.26	185.60	167.62	147.90	126.44
70	174.00	171.10	166.46	161.24	154.28	145.00	133.40	120.06	105.56	90.48
75	114.84	112.52	109.62	105.56	100.92	94.54	87.00	78.30	69.02	59.74
80	64.96	63.22	61.48	59.16	56.26	52.78	48.72	43.50	38.28	33.64
85	25.52	24.36	23.78	22.62	21.46	19.72	18.56	16.82	14.50	12.76
90	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>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>
0	552.74	552.74	552.74	552.74	552.74	552.74	552.74	552.74	552.74	552.74
5	538.82	533.02	527.22	521.42	515.62	510.40	505.76	500.54	496.48	493.00
10	517.94	505.18	491.84	479.66	467.48	455.30	444.28	433.84	425.14	416.44
15	491.84	472.12	451.82	433.26	414.12	396.72	380.48	365.98	352.64	340.46
20	461.68	435.58	409.48	384.54	360.18	338.72	319.00	300.44	284.78	270.86
25	428.62	395.56	364.24	335.82	307.40	283.04	261.58	241.86	225.62	211.12
30	390.92	354.38	319.00	287.68	257.52	232.00	210.54	191.40	175.74	162.40
35	350.90	310.88	274.34	241.86	211.70	187.92	167.62	150.22	135.72	124.70

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CANDELA TABULATION - (Cont.)

40	307.98	267.96	231.42	200.10	171.68	150.22	132.24	116.58	105.56	96.86
45	264.48	226.20	191.40	162.98	137.46	118.90	103.82	91.64	82.94	76.56
50	220.98	186.18	155.44	130.50	109.62	93.96	82.36	73.08	66.12	61.48
55	180.38	150.22	124.70	103.82	87.00	74.82	65.54	58.58	53.36	49.88
60	142.10	117.16	97.44	81.20	67.86	58.58	51.62	46.40	42.92	40.02
65	106.72	88.74	73.66	61.48	52.20	45.24	40.02	36.54	33.64	31.32
70	76.56	63.80	53.36	44.66	38.28	33.64	30.16	27.26	24.94	23.78
75	51.04	42.92	35.96	30.16	26.10	23.20	20.88	19.14	17.40	16.82
80	28.42	24.36	20.30	17.98	15.66	13.92	12.76	11.60	11.02	10.44
85	11.02	9.86	8.70	7.54	6.96	6.38	5.80	5.22	5.22	4.64
90	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>
0	552.74	552.74	552.74	552.74	552.74	552.74	552.74
5	489.52	486.62	483.72	481.98	480.82	479.66	479.66
10	408.90	403.10	397.88	393.82	390.92	388.60	388.02
15	330.02	321.90	314.94	308.56	305.08	302.76	301.60
20	258.68	249.40	241.28	235.48	230.84	228.52	227.36
25	198.94	190.24	182.12	176.32	172.26	169.94	169.36
30	151.96	143.26	136.88	131.66	128.76	126.44	125.86
35	116.00	109.04	103.82	99.76	97.44	95.70	95.70
40	89.90	84.68	81.20	78.30	76.56	75.40	74.82
45	71.34	67.86	64.96	62.64	61.48	60.90	60.32
50	57.42	55.10	52.78	51.62	51.04	50.46	49.88
55	47.56	45.24	44.08	42.92	42.34	42.34	41.76
60	38.28	36.54	35.96	34.80	34.80	34.22	34.22
65	30.16	29.00	28.42	27.84	27.26	27.26	27.26
70	22.62	22.04	21.46	20.88	20.30	20.30	20.30
75	15.66	15.08	15.08	14.50	14.50	14.50	14.50
80	9.86	9.86	9.28	9.28	9.28	9.28	9.28
85	4.64	4.64	4.64	4.64	4.64	4.64	4.64
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	198.00	N.A.	14.70
0-30	412.49	N.A.	30.60
0-40	662.39	N.A.	49.20
0-60	1114.18	N.A.	82.70
0-80	1328.21	N.A.	98.60
0-90	1347.45	N.A.	100.00
10-90	1295.4	N.A.	96.10
20-40	464.40	N.A.	34.50
20-50	710.88	N.A.	52.80
40-70	592.43	N.A.	44.00
60-80	214.03	N.A.	15.90
70-80	73.39	N.A.	5.40
80-90	19.24	N.A.	1.40
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	1347.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	52.05
10-20	145.95
20-30	214.49
30-40	249.90
40-50	246.48
50-60	205.30
60-70	140.64
70-80	73.39
80-90	19.24
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

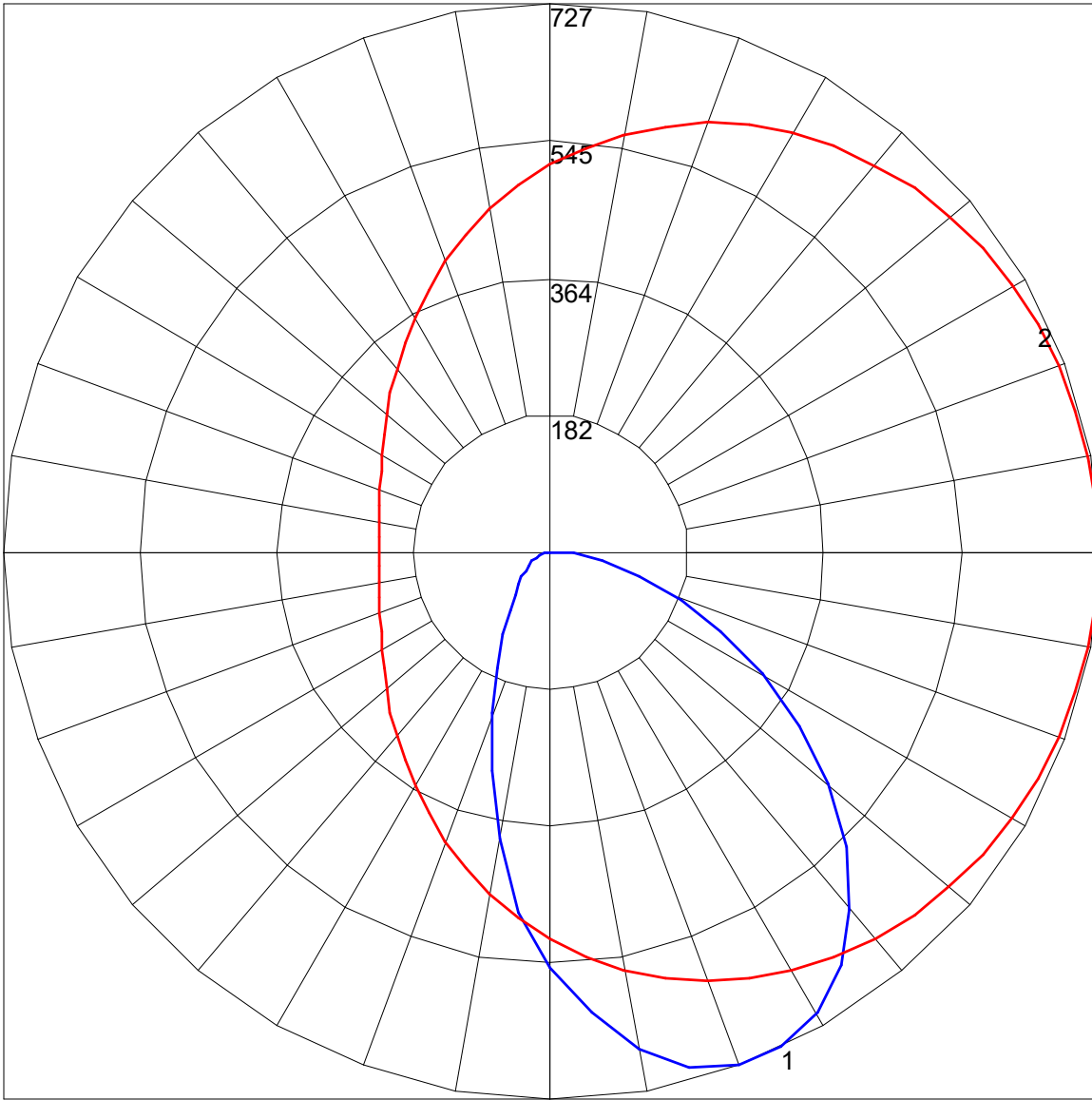
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
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	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27

POLAR GRAPH



Maximum Candela = 727.32 Located At Horizontal Angle = 0, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)