

## IES Report

# ZipTwo® | 707 | Diffuse with MicroBaffle | 80 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-35-D4-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	116	119	122	122
Total Lumens, 4' rail length (1219mm)	1714	1768	1804	1804
Lumens per foot (305mm)	428	442	451	451
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\_Z2\_LO\_35\_D4.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911535 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-Z-LO-35-D4-AL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board, diffuse lens with microbaffle,

[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	1804
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	14.89
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.08 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	21997	19531	16844
55	19296	16325	13456
65	16501	13581	10939
75	14153	11504	9082
85	15733	12362	8316

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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</b>	791.70	791.70	791.70	791.70	791.70	791.70	791.70	791.70	791.70	791.70
<b>5</b>	788.80	788.22	788.22	788.22	788.22	788.22	788.22	788.22	788.22	788.22
<b>10</b>	776.62	776.62	776.62	776.62	776.04	776.04	775.46	774.88	774.88	774.30
<b>15</b>	756.32	756.32	756.32	755.74	754.58	754.00	753.42	752.26	751.10	749.94
<b>20</b>	726.74	726.16	725.58	725.00	723.84	722.68	720.94	719.20	716.88	714.56
<b>25</b>	687.88	687.88	686.72	686.14	683.82	681.50	679.18	675.70	672.22	668.74
<b>30</b>	641.48	640.90	639.74	638.00	635.10	631.62	627.56	623.50	617.70	612.48
<b>35</b>	586.38	585.80	584.64	582.32	578.84	574.20	568.98	562.60	555.64	548.10
<b>40</b>	525.48	524.90	523.16	520.84	516.20	510.98	504.02	496.48	488.36	478.50
<b>45</b>	460.52	459.94	458.20	455.30	450.08	444.28	436.74	428.04	418.76	408.90
<b>50</b>	393.82	393.24	391.50	388.60	383.38	377.00	369.46	360.18	350.90	340.46
<b>55</b>	327.70	327.12	325.38	322.48	317.84	311.46	304.50	295.80	286.52	277.24
<b>60</b>	265.06	264.48	262.74	259.84	255.78	249.98	243.60	236.06	228.52	219.82
<b>65</b>	206.48	205.90	204.74	202.42	198.94	194.30	189.08	182.70	176.32	169.94
<b>70</b>	153.70	153.70	152.54	150.80	147.90	144.42	140.36	135.72	130.50	125.86
<b>75</b>	108.46	108.46	107.30	106.14	104.40	101.50	98.60	95.70	91.64	88.16
<b>80</b>	71.34	71.34	70.76	69.60	68.44	66.70	64.38	62.64	59.74	57.42
<b>85</b>	40.60	40.60	40.02	39.44	38.86	37.70	36.54	34.80	33.64	31.90
<b>90</b>	17.40	17.40	16.82	16.24	15.66	15.08	14.50	13.34	12.18	11.02
<b>95</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>100</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>105</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>110</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>115</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>120</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>125</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>130</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>135</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>140</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>145</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>150</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>155</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>160</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>165</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>170</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>175</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>180</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>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</b>	791.70	791.70	791.70	791.70	791.70	791.70	791.70	791.70	791.70
<b>5</b>	788.22	787.64	787.64	787.64	787.64	787.64	787.64	787.64	787.06
<b>10</b>	773.72	773.14	772.56	772.56	771.98	771.98	771.98	771.40	771.40
<b>15</b>	748.78	747.62	746.46	745.30	744.14	743.56	742.98	742.98	742.40
<b>20</b>	712.24	709.92	707.60	705.86	704.12	702.38	701.22	700.64	700.64
<b>25</b>	664.68	660.62	657.14	653.66	650.18	647.86	646.12	644.96	644.38
<b>30</b>	606.68	600.88	595.08	590.44	585.80	581.74	579.42	577.68	576.52
<b>35</b>	540.56	533.02	525.48	519.10	513.30	508.66	505.18	502.86	502.28
<b>40</b>	469.80	460.52	452.40	444.28	438.48	432.68	429.20	426.88	425.72
<b>45</b>	398.46	388.60	379.90	371.78	364.82	359.60	355.54	353.22	352.64
<b>50</b>	330.60	320.74	312.04	304.50	298.12	292.90	289.42	287.10	286.52
<b>55</b>	267.96	259.26	251.14	244.76	238.96	234.32	231.42	229.10	228.52
<b>60</b>	212.28	204.74	198.36	192.56	187.92	183.86	181.54	179.80	179.22

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CANDELA TABULATION - (Cont.)

65	162.98	157.18	151.96	147.32	143.84	140.94	138.62	137.46	136.88
70	121.22	116.58	112.52	109.04	106.14	103.82	102.08	100.92	100.92
75	84.68	81.78	78.88	75.98	74.24	72.50	70.76	70.18	69.60
80	55.10	52.78	51.04	48.72	47.56	45.82	44.66	44.08	44.08
85	30.16	29.00	27.26	26.10	24.94	23.78	22.62	22.04	21.46
90	10.44	9.28	8.12	6.96	5.80	4.64	4.06	2.90	2.32
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	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	285.79	N.A.	15.80
0-30	592.43	N.A.	32.80
0-40	933.61	N.A.	51.80
0-60	1498.6	N.A.	83.10
0-80	1764.91	N.A.	97.80
0-90	1800.83	N.A.	99.80
10-90	1726.06	N.A.	95.70
20-40	647.82	N.A.	35.90
20-50	962.91	N.A.	53.40
40-70	735.71	N.A.	40.80
60-80	266.31	N.A.	14.80
70-80	95.58	N.A.	5.30
80-90	35.92	N.A.	2.00
90-110	2.96	N.A.	0.20
90-120	2.96	N.A.	0.20
90-130	2.96	N.A.	0.20
90-150	2.96	N.A.	0.20
90-180	2.96	N.A.	0.20
110-180	0.00	N.A.	0.00
0-180	1803.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	74.77
10-20	211.03
20-30	306.64
30-40	341.18
40-50	315.09
50-60	249.90
60-70	170.72
70-80	95.58
80-90	35.92
90-100	2.96
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

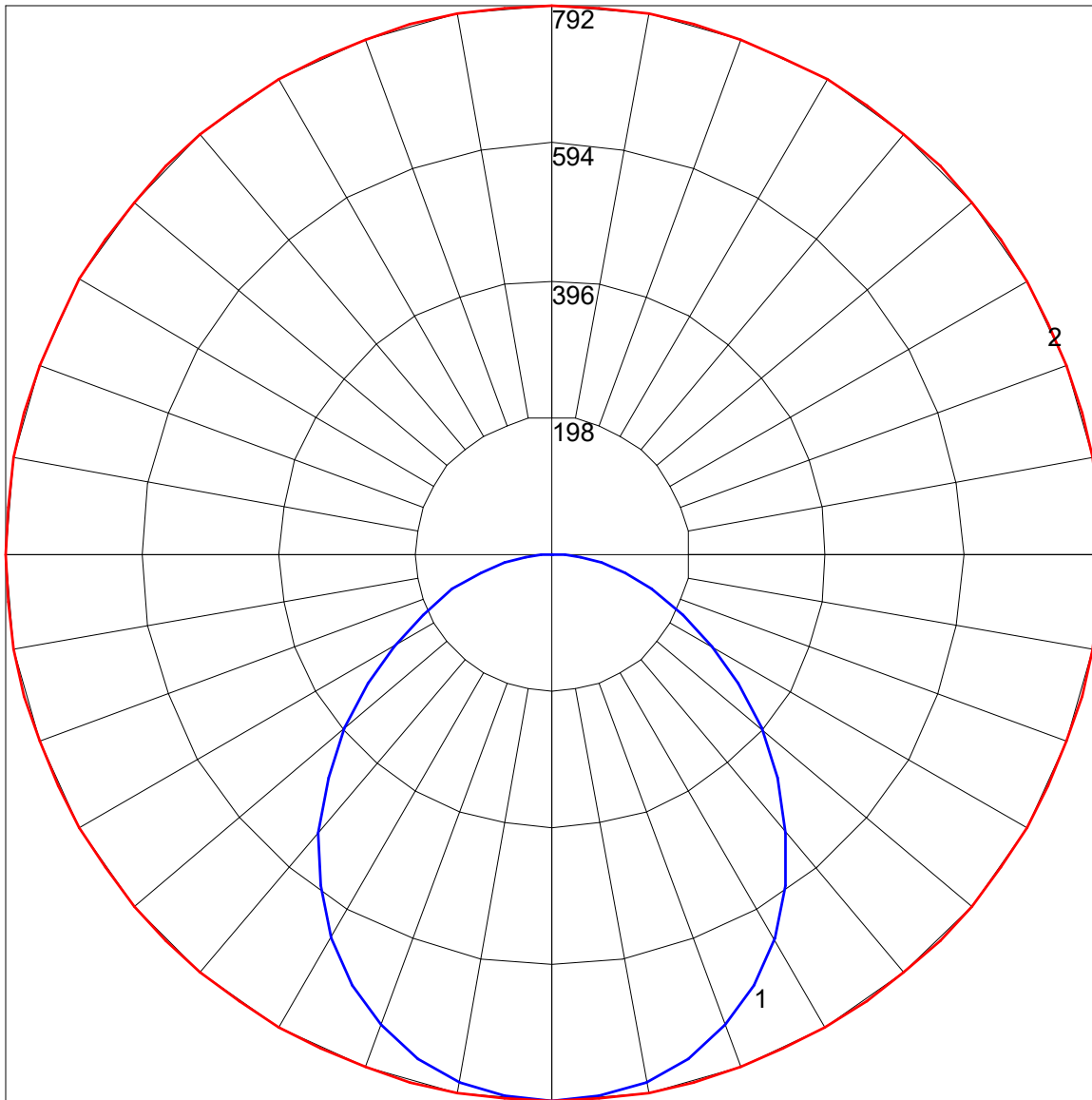
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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
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	94	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	55	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37
8	63	50	42	36	61	49	42	36	48	41	36	47	40	36	46	40	35	34
9	59	46	38	33	58	46	38	33	44	37	33	43	37	32	42	37	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

POLAR GRAPH



Maximum Candela = 791.7 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)