

## IES Report

# ZipTwo® | 707 | 85° Asymmetric | 80 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-35-A1-X-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	36	37	38	38
Total Lumens, 4' rail length (1219mm)	524	541	552	552
Lumens per foot (305mm)	131	135	138	138
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\_A1\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911529 (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-A1-BL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board, 85° black asymmetric lens,

[MORE] low output, black anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	552
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	37
Total Luminaire Watts	14.89
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	3.08
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.86
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	44252	29079	4370
55	41076	23910	3115
65	35964	18191	2573
75	31646	14517	2221
85	35795	14582	1583



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**CANDELA TABULATION - (Cont.)**

<b>65</b>	96.263	80.898	66.410	53.772	44.828	34.278	26.692	20.758	16.095	12.493
<b>70</b>	68.747	57.321	47.502	38.848	31.216	24.992	19.645	15.556	12.203	9.576
<b>75</b>	46.771	38.895	32.236	26.303	21.390	17.209	13.613	10.794	8.509	6.757
<b>80</b>	29.220	24.209	20.033	16.339	13.125	10.504	8.265	6.513	5.058	3.938
<b>85</b>	15.556	12.690	10.307	8.166	6.467	4.959	3.741	2.772	2.042	1.508
<b>90</b>	5.835	4.570	3.405	2.529	1.752	1.166	0.632	0.342	0.197	0.099
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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

	<b>100</b>	<b>105</b>	<b>110</b>	<b>115</b>	<b>120</b>	<b>125</b>	<b>130</b>	<b>135</b>	<b>140</b>	<b>145</b>
<b>0</b>	104.992	104.992	104.992	104.992	104.992	104.992	104.992	104.992	104.992	104.992
<b>5</b>	97.428	93.879	90.480	87.418	84.257	81.583	79.100	76.670	74.727	72.877
<b>10</b>	88.293	81.484	75.162	69.623	64.276	59.850	55.912	52.409	49.399	46.870
<b>15</b>	78.323	69.084	60.970	54.114	48.036	43.077	38.895	35.345	32.329	29.951
<b>20</b>	68.214	57.275	50.124	41.667	35.542	30.821	27.034	23.971	21.489	19.546
<b>25</b>	57.513	48.766	38.309	31.552	26.257	22.266	19.012	16.576	14.778	13.323
<b>30</b>	48.958	37.584	29.464	23.728	19.447	16.240	13.758	11.913	10.597	9.576
<b>35</b>	38.309	29.464	22.800	18.084	14.587	12.105	10.307	8.996	8.021	7.244
<b>40</b>	30.583	22.997	17.649	14.001	11.229	9.431	8.120	7.099	6.421	5.835
<b>45</b>	23.971	18.038	13.903	11.136	9.042	7.633	6.658	5.835	5.301	4.860
<b>50</b>	18.960	14.390	11.281	9.187	7.534	6.467	5.638	5.005	4.524	4.182
<b>55</b>	15.074	11.716	9.431	7.731	6.421	5.545	4.913	4.327	3.938	3.596
<b>60</b>	12.302	9.727	7.923	6.612	5.591	4.814	4.228	3.741	3.405	3.115
<b>65</b>	9.964	8.021	6.566	5.446	4.669	4.037	3.503	3.115	2.819	2.529
<b>70</b>	7.679	6.270	5.156	4.327	3.648	3.161	2.720	2.430	2.140	1.943
<b>75</b>	5.394	4.373	3.648	3.062	2.529	2.239	1.943	1.752	1.607	1.363
<b>80</b>	3.161	2.529	2.088	1.752	1.462	1.264	1.119	0.974	0.876	0.777
<b>85</b>	1.166	0.974	0.829	0.679	0.586	0.487	0.435	0.435	0.389	0.389
<b>90</b>	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.145	0.197	0.197
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**CANDELA TABULATION - (Cont.)**

<b>140</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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

	<b><u>150</u></b>	<b><u>155</u></b>	<b><u>160</u></b>	<b><u>165</u></b>	<b><u>170</u></b>	<b><u>175</u></b>	<b><u>180</u></b>
<b>0</b>	104.992	104.992	104.992	104.992	104.992	104.992	104.992
<b>5</b>	71.421	70.012	68.939	68.162	67.483	67.094	66.996
<b>10</b>	44.730	42.978	41.569	40.449	39.672	39.283	39.092
<b>15</b>	28.002	26.402	25.184	24.209	23.629	23.241	23.043
<b>20</b>	17.992	16.774	15.898	15.219	14.778	14.535	14.390
<b>25</b>	12.157	11.380	10.695	10.260	9.918	9.773	9.727
<b>30</b>	8.799	8.219	7.731	7.441	7.198	7.099	7.099
<b>35</b>	6.711	6.270	5.980	5.736	5.591	5.545	5.446
<b>40</b>	5.394	5.104	4.860	4.669	4.570	4.524	4.472
<b>45</b>	4.570	4.280	4.083	3.985	3.892	3.793	3.793
<b>50</b>	3.892	3.695	3.503	3.405	3.306	3.306	3.306
<b>55</b>	3.352	3.161	3.016	2.917	2.819	2.819	2.720
<b>60</b>	2.819	2.674	2.529	2.430	2.332	2.332	2.332
<b>65</b>	2.332	2.140	2.042	1.943	1.897	1.850	1.850
<b>70</b>	1.752	1.653	1.554	1.462	1.462	1.363	1.363
<b>75</b>	1.264	1.166	1.067	1.067	0.974	0.974	0.974
<b>80</b>	0.731	0.679	0.632	0.586	0.586	0.586	0.586
<b>85</b>	0.342	0.342	0.290	0.290	0.290	0.290	0.290
<b>90</b>	0.197	0.197	0.197	0.197	0.197	0.197	0.197
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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

Zone	Lumens	%Lamp	%Fixt
0-20	50.02	N.A.	9.10
0-30	127.90	N.A.	23.20
0-40	236.47	N.A.	42.90
0-60	440.88	N.A.	79.90
0-80	537.37	N.A.	97.40
0-90	550.32	N.A.	99.80
10-90	539.55	N.A.	97.80
20-40	186.45	N.A.	33.80
20-50	299.02	N.A.	54.20
40-70	266.54	N.A.	48.30
60-80	96.49	N.A.	17.50
70-80	34.36	N.A.	6.20
80-90	12.94	N.A.	2.30
90-110	1.28	N.A.	0.20
90-120	1.28	N.A.	0.20
90-130	1.28	N.A.	0.20
90-150	1.28	N.A.	0.20
90-180	1.28	N.A.	0.20
110-180	0.00	N.A.	0.00
0-180	551.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	10.77
10-20	39.25
20-30	77.89
30-40	108.56
40-50	112.58
50-60	91.84
60-70	62.13
70-80	34.36
80-90	12.94
90-100	1.28
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

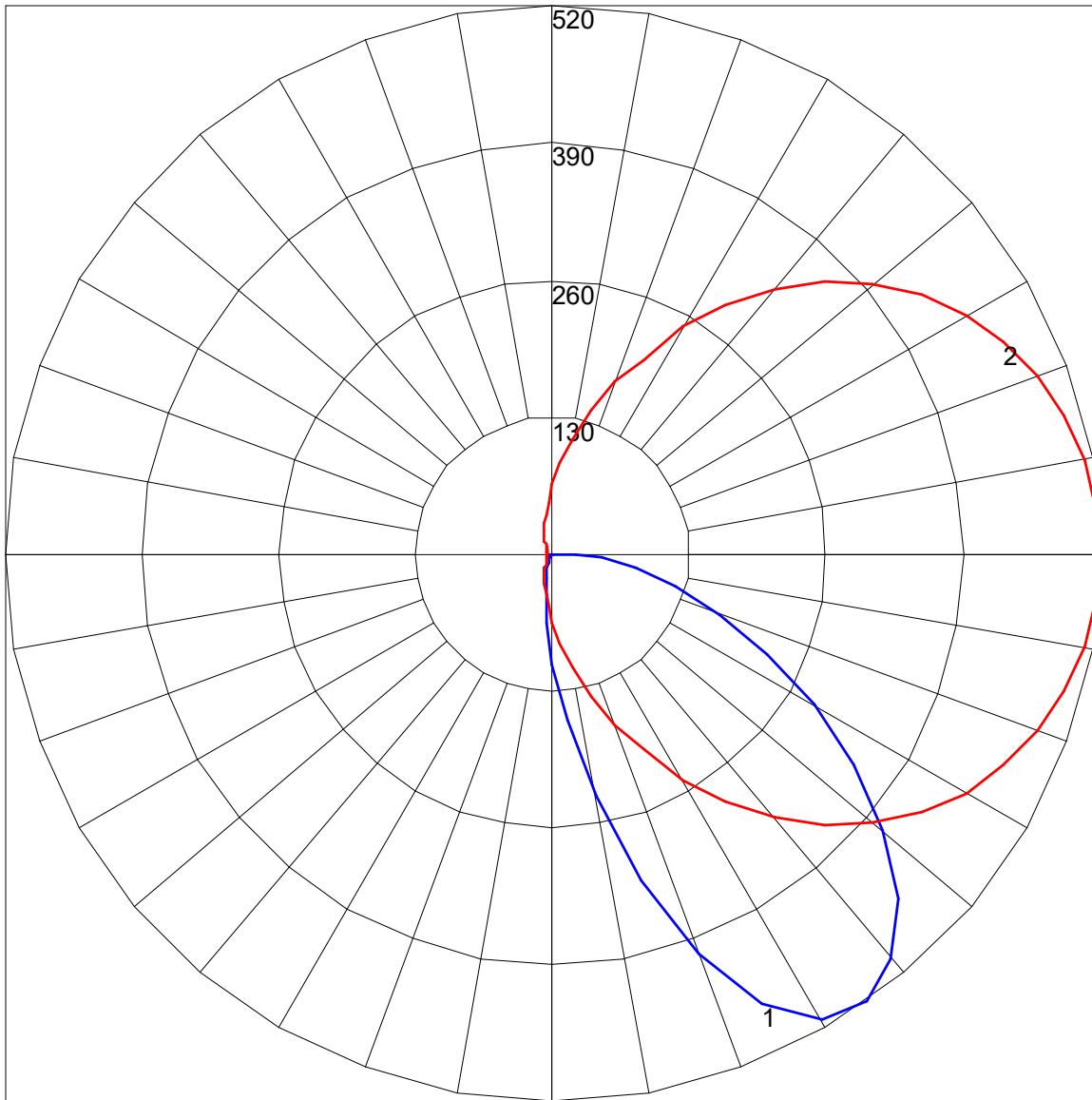
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	75	81	77	73	78	74	71	69
3	90	79	71	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	69	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	44	38	34	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28
9	55	41	33	27	53	40	32	27	39	32	27	38	31	27	37	31	26	25
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

POLAR GRAPH



Maximum Candela = 520.115 Located At Horizontal Angle = 0, Vertical Angle = 35  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (35) (Through Max. Cd.)