

IES Report

ZipTwo® | 707 | Diffuse | 90 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-359-D3-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	104	108	110	112
Total Lumens, 4' rail length (1219mm)	1686	1740	1775	1811
Lumens per foot (305mm)	422	435	444	453
Input Power (W), 4' rail length (1219mm)	16.3	16.3	16.3	16.3
Watts per foot (305mm)	4.1	4.1	4.1	4.1
CRI	95	95	95	95

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\_359\_D3.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L121800101 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
[ISSUEDATE] 12/14/2018  
[MANUFAC] Vode Lighting  
[LUMCAT] 707-Z2-48-LO-359-D3-AL  
[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board,  
[MORE] diffuse lens, low output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1775
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	16.25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.10 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15502	15649	15748
55	13697	13798	13858
65	11817	11790	11707
75	10297	10028	9581
85	11699	10370	8110

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>	688.307	688.307	688.307	688.307	688.307	688.307	688.307	688.307	688.307	688.307
<b>5</b>	685.290	685.290	685.290	685.290	685.290	685.290	685.290	685.290	685.290	685.721
<b>10</b>	675.377	675.808	675.377	675.808	675.377	675.808	675.808	675.808	675.808	675.808
<b>15</b>	658.137	658.137	658.568	658.137	658.568	658.568	658.568	658.999	658.999	658.999
<b>20</b>	633.570	634.001	634.001	634.001	634.001	634.001	634.432	634.432	634.863	634.863
<b>25</b>	601.245	601.676	601.676	601.676	602.107	602.107	602.538	602.969	603.400	603.400
<b>30</b>	562.024	562.024	562.455	562.455	562.886	563.317	563.748	564.179	564.610	565.041
<b>35</b>	515.907	515.907	516.338	516.338	516.769	517.200	517.631	518.493	518.493	519.355
<b>40</b>	463.756	464.187	464.187	464.618	465.049	465.480	465.911	466.342	467.204	467.635
<b>45</b>	407.726	408.157	408.157	408.157	409.019	409.450	409.450	410.312	410.743	411.605
<b>50</b>	349.972	349.972	349.972	350.403	350.834	351.265	351.265	352.127	352.558	352.989
<b>55</b>	292.218	292.218	292.649	292.649	293.080	293.080	293.511	293.942	293.942	294.373
<b>60</b>	237.050	237.050	237.050	237.050	237.481	237.481	237.481	237.481	237.912	237.912
<b>65</b>	185.761	185.761	185.761	185.761	185.761	185.761	185.761	185.761	185.330	185.330
<b>70</b>	139.213	139.213	139.213	139.213	139.213	139.213	138.782	138.782	138.351	137.920
<b>75</b>	99.130	99.130	98.699	98.699	98.699	98.268	97.837	97.406	96.975	96.544
<b>80</b>	65.081	65.081	64.650	64.650	64.219	63.788	63.357	62.926	62.495	61.633
<b>85</b>	37.928	37.928	37.497	37.066	37.066	36.204	35.773	34.911	34.480	33.618
<b>90</b>	16.378	16.378	15.947	15.947	15.085	14.654	13.792	12.930	12.068	11.206
<b>95</b>	11.206	11.206	11.206	10.775	10.344	9.913	9.482	9.051	8.189	7.327
<b>100</b>	10.775	10.775	10.775	10.344	9.913	9.482	9.051	8.620	8.189	7.327
<b>105</b>	10.344	10.344	10.344	9.913	9.913	9.482	9.051	8.189	7.758	7.327
<b>110</b>	10.344	10.344	9.913	9.913	9.482	9.051	8.620	0.000	0.000	0.000
<b>115</b>	9.913	9.913	9.913	9.482	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

	<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>	688.307	688.307	688.307	688.307	688.307	688.307	688.307	688.307	688.307
<b>5</b>	685.721	685.721	685.721	685.721	685.721	685.721	685.721	685.721	685.721
<b>10</b>	675.808	675.808	675.808	675.808	675.808	676.239	676.239	676.239	675.808
<b>15</b>	658.999	658.999	659.430	659.430	659.430	659.430	659.430	659.430	659.861
<b>20</b>	634.863	635.294	635.294	635.725	635.725	636.156	635.725	635.725	636.156
<b>25</b>	603.831	604.262	604.262	604.693	604.693	605.124	605.124	605.124	605.124
<b>30</b>	565.472	565.903	565.903	566.334	566.765	567.196	567.196	567.196	567.196
<b>35</b>	519.786	520.217	520.648	521.510	521.941	521.941	522.372	522.372	522.803
<b>40</b>	468.497	468.928	469.359	469.790	470.221	470.221	470.652	470.652	470.652
<b>45</b>	412.036	412.467	412.898	413.329	413.760	414.191	414.622	414.191	414.191
<b>50</b>	353.420	353.851	354.282	354.282	354.713	355.144	355.144	355.144	355.144
<b>55</b>	294.373	294.804	295.235	295.235	295.235	295.666	295.666	295.666	295.666
<b>60</b>	237.912	237.912	237.912	237.912	237.912	237.912	237.912	237.912	237.912

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	185.330	185.330	184.899	184.899	184.899	184.468	184.037	184.037	184.037
<b>70</b>	137.920	137.489	137.058	136.627	136.196	136.196	135.765	135.334	135.334
<b>75</b>	96.113	95.682	94.820	94.389	93.958	93.096	92.665	92.234	92.234
<b>80</b>	60.771	60.340	59.478	58.616	57.754	57.323	56.461	56.030	55.599
<b>85</b>	32.756	31.894	30.601	29.739	28.877	28.015	27.153	26.722	26.291
<b>90</b>	9.913	9.051	7.758	6.896	5.603	4.741	3.448	2.586	2.155
<b>95</b>	6.896	6.034	5.172	4.310	3.448	2.586	2.155	1.293	0.862
<b>100</b>	6.465	6.034	5.172	4.310	3.448	3.017	2.155	1.724	0.000
<b>105</b>	6.465	6.034	5.172	4.310	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
<b>115</b>	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
<b>125</b>	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
<b>135</b>	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
<b>145</b>	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
<b>155</b>	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
<b>165</b>	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
<b>175</b>	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

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	250.93	N.A.	14.10
0-30	528.66	N.A.	29.80
0-40	852.94	N.A.	48.00
0-60	1433.67	N.A.	80.80
0-80	1721.47	N.A.	97.00
0-90	1758.87	N.A.	99.10
10-90	1693.75	N.A.	95.40
20-40	602.01	N.A.	33.90
20-50	919.13	N.A.	51.80
40-70	765.30	N.A.	43.10
60-80	287.80	N.A.	16.20
70-80	103.22	N.A.	5.80
80-90	37.41	N.A.	2.10
90-110	14.44	N.A.	0.80
90-120	16.26	N.A.	0.90
90-130	16.26	N.A.	0.90
90-150	16.26	N.A.	0.90
90-180	16.26	N.A.	0.90
110-180	1.82	N.A.	0.10
0-180	1775.13	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	65.12
10-20	185.81
20-30	277.72
30-40	324.29
40-50	317.12
50-60	263.60
60-70	184.58
70-80	103.22
80-90	37.41
90-100	8.49
100-110	5.94
110-120	1.82
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

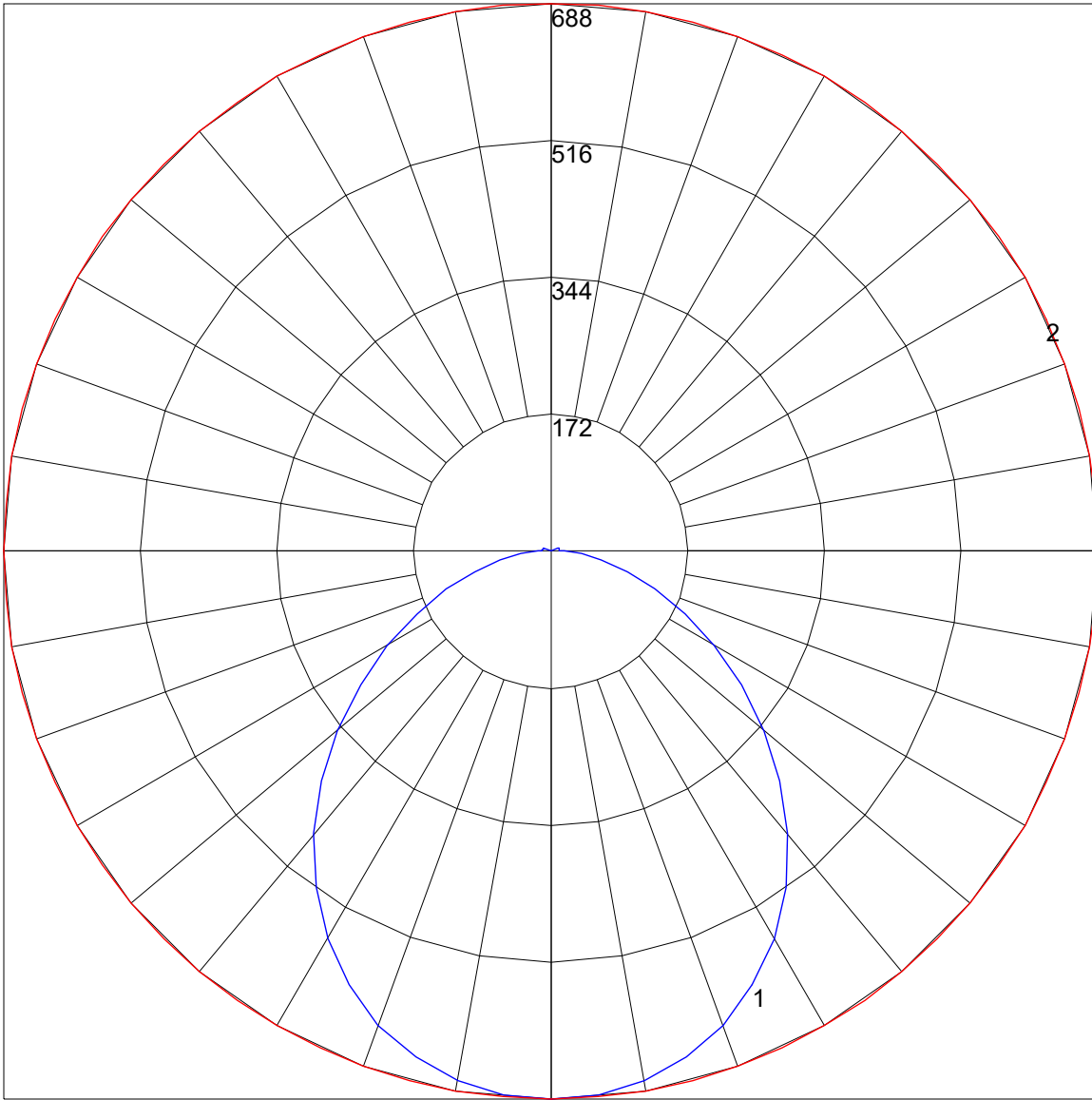
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	101	101	101	99
1	109	104	100	96	106	102	98	95	97	94	92	93	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	82	78	74	79	76	73	70
3	91	81	73	66	88	79	72	66	76	70	65	73	68	63	70	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	65	59	55	63	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	36	31	41	35	30	40	35	30	28
10	54	41	33	28	53	41	33	28	39	33	28	38	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 688.307 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)