

## IES Report

# ZipTwo® | 707 | Diffuse | 90 CRI | HO

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	126	130	133	134
Total Lumens, 4' rail length (1219mm)	4977	5134	5239	5291
Lumens per foot (305mm)	1244	1284	1310	1323
Input Power (W), 4' rail length (1219mm)	39.6	39.6	39.6	39.6
Watts per foot (305mm)	9.9	9.9	9.9	9.9
CRI	94	94	94	94

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\_HO\_359\_D3.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L121911534 (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-HO-359-D3-AL  
[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board, diffuse lens,  
[MORE] high 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	5239
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	39.55
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)	0.08 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	57819	58249	58679
55	51406	51583	51759
65	44594	44474	44114
75	38953	38170	36408
85	43596	39527	31970

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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>	2040.0	2040.0	2040.0	2040.0	2040.0	2040.0	2040.0	2040.0	2040.0	2040.0
<b>5</b>	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5
<b>10</b>	2004.0	2002.5	2004.0	2002.5	2004.0	2004.0	2002.5	2004.0	2004.0	2004.0
<b>15</b>	1951.5	1950.0	1950.0	1950.0	1950.0	1950.0	1951.5	1951.5	1951.5	1953.0
<b>20</b>	1876.5	1875.0	1876.5	1876.5	1876.5	1876.5	1878.0	1879.5	1879.5	1881.0
<b>25</b>	1779.0	1779.0	1780.5	1780.5	1782.0	1783.5	1783.5	1785.0	1786.5	1786.5
<b>30</b>	1662.0	1663.5	1663.5	1663.5	1663.5	1665.0	1668.0	1668.0	1669.5	1671.0
<b>35</b>	1527.0	1527.0	1527.0	1527.0	1528.5	1530.0	1531.5	1533.0	1534.5	1536.0
<b>40</b>	1375.5	1375.5	1375.5	1375.5	1378.5	1378.5	1380.0	1381.5	1381.5	1384.5
<b>45</b>	1210.5	1212.0	1212.0	1212.0	1213.5	1215.0	1215.0	1216.5	1216.5	1219.5
<b>50</b>	1042.5	1042.5	1042.5	1042.5	1042.5	1044.0	1045.5	1045.5	1045.5	1047.0
<b>55</b>	873.0	873.0	873.0	873.0	874.5	874.5	874.5	876.0	876.0	876.0
<b>60</b>	709.5	709.5	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0
<b>65</b>	558.0	558.0	558.0	558.0	558.0	558.0	558.0	556.5	556.5	556.5
<b>70</b>	420.0	420.0	420.0	420.0	420.0	418.5	418.5	418.5	417.0	415.5
<b>75</b>	298.5	298.5	298.5	297.0	297.0	297.0	295.5	295.5	294.0	292.5
<b>80</b>	196.5	195.0	195.0	195.0	193.5	193.5	192.0	190.5	189.0	187.5
<b>85</b>	112.5	112.5	112.5	112.5	111.0	109.5	108.0	106.5	105.0	102.0
<b>90</b>	48.0	48.0	46.5	45.0	45.0	43.5	40.5	39.0	36.0	33.0
<b>95</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>100</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>105</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>110</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>115</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>120</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>125</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>130</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>135</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>140</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>145</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>150</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>155</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>160</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>165</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>170</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>175</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>180</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**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>	2040.0	2040.0	2040.0	2040.0	2040.0	2040.0	2040.0	2040.0	2040.0
<b>5</b>	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5
<b>10</b>	2004.0	2004.0	2004.0	2004.0	2005.5	2004.0	2005.5	2005.5	2004.0
<b>15</b>	1954.5	1954.5	1954.5	1956.0	1956.0	1956.0	1954.5	1956.0	1956.0
<b>20</b>	1881.0	1882.5	1884.0	1884.0	1885.5	1885.5	1884.0	1885.5	1884.0
<b>25</b>	1788.0	1789.5	1791.0	1792.5	1794.0	1794.0	1794.0	1794.0	1794.0
<b>30</b>	1672.5	1674.0	1674.0	1678.5	1677.0	1678.5	1680.0	1680.0	1680.0
<b>35</b>	1537.5	1540.5	1542.0	1542.0	1543.5	1545.0	1545.0	1546.5	1546.5
<b>40</b>	1384.5	1387.5	1389.0	1390.5	1392.0	1392.0	1393.5	1393.5	1393.5
<b>45</b>	1219.5	1221.0	1222.5	1224.0	1225.5	1227.0	1227.0	1227.0	1228.5
<b>50</b>	1048.5	1048.5	1050.0	1051.5	1051.5	1053.0	1053.0	1053.0	1053.0
<b>55</b>	876.0	877.5	877.5	877.5	877.5	879.0	879.0	879.0	879.0
<b>60</b>	711.0	711.0	711.0	711.0	709.5	709.5	709.5	709.5	709.5

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	555.0	555.0	555.0	553.5	553.5	552.0	552.0	550.5	552.0
<b>70</b>	415.5	414.0	412.5	412.5	411.0	409.5	408.0	408.0	408.0
<b>75</b>	291.0	289.5	288.0	285.0	283.5	282.0	280.5	280.5	279.0
<b>80</b>	186.0	183.0	181.5	178.5	177.0	175.5	172.5	171.0	171.0
<b>85</b>	100.5	97.5	94.5	93.0	90.0	87.0	85.5	84.0	82.5
<b>90</b>	30.0	28.5	25.5	22.5	19.5	16.5	13.5	12.0	9.0
<b>95</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>100</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>105</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>110</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>115</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>120</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>125</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>130</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>135</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>140</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>145</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>150</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>155</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>160</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>165</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>170</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>175</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>180</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	743.75	N.A.	14.20
0-30	1566.11	N.A.	29.90
0-40	2525.71	N.A.	48.20
0-60	4250.75	N.A.	81.10
0-80	5116.28	N.A.	97.70
0-90	5230.24	N.A.	99.80
10-90	5037.15	N.A.	96.10
20-40	1781.96	N.A.	34.00
20-50	2722.03	N.A.	52.00
40-70	2278.59	N.A.	43.50
60-80	865.53	N.A.	16.50
70-80	311.98	N.A.	6.00
80-90	113.96	N.A.	2.20
90-110	8.72	N.A.	0.20
90-120	8.72	N.A.	0.20
90-130	8.72	N.A.	0.20
90-150	8.72	N.A.	0.20
90-180	8.72	N.A.	0.20
110-180	0.00	N.A.	0.00
0-180	5238.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	193.08
10-20	550.67
20-30	822.36
30-40	959.60
40-50	940.06
50-60	784.98
60-70	553.55
70-80	311.98
80-90	113.96
90-100	8.72
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

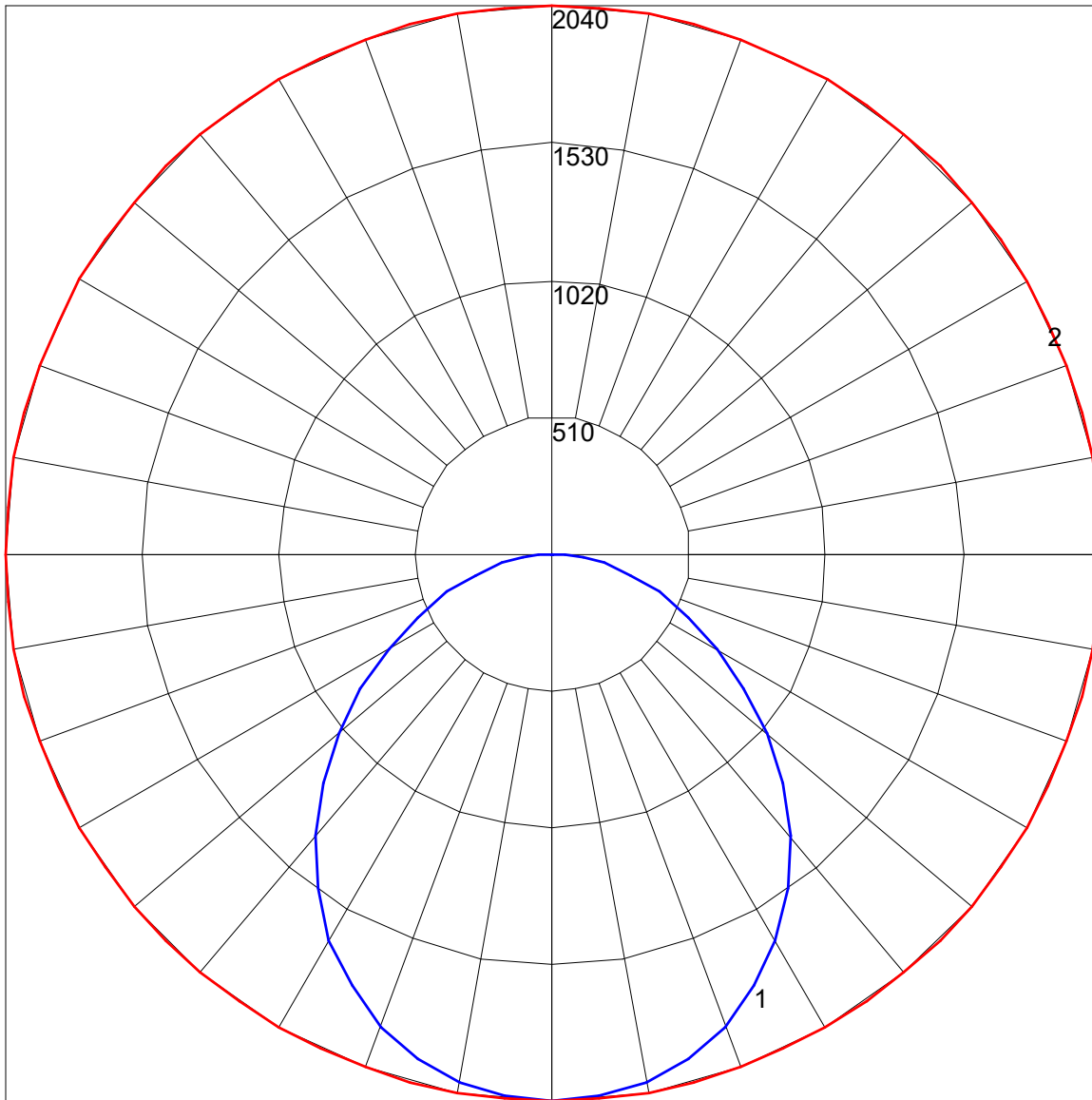
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	63	71	66	62	60
4	84	72	63	57	81	70	62	56	68	61	56	66	60	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	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 2040 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.)