

## IES Report

# ZipTwo® | 707 | Micro 3508, High Lumen with microbaffle | 90 CRI | HO 707-Z2-4-48-XX-XX-X-0-Z-HO-359-D4-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	113	116	118	120
Total Lumens, 4' rail length (1219mm)	4432	4572	4665	4712
Lumens per foot (305mm)	1108	1143	1166	1178
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\_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] 2/8/2021

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-Z-HO-359-D4-AL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 90 CRI, zipper board, micro 3508, high lumen lens with microbaffle,

[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	4665
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	39.55
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	56888	50511	43561
55	49904	42220	34801
65	42676	35124	28291
75	36604	29753	23489
85	40690	31970	21507

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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>	2047.5	2047.5	2047.5	2047.5	2047.5	2047.5	2047.5	2047.5	2047.5	2047.5
<b>5</b>	2040.0	2038.5	2038.5	2038.5	2038.5	2038.5	2038.5	2038.5	2038.5	2038.5
<b>10</b>	2008.5	2008.5	2008.5	2008.5	2007.0	2007.0	2005.5	2004.0	2004.0	2002.5
<b>15</b>	1956.0	1956.0	1956.0	1954.5	1951.5	1950.0	1948.5	1945.5	1942.5	1939.5
<b>20</b>	1879.5	1878.0	1876.5	1875.0	1872.0	1869.0	1864.5	1860.0	1854.0	1848.0
<b>25</b>	1779.0	1779.0	1776.0	1774.5	1768.5	1762.5	1756.5	1747.5	1738.5	1729.5
<b>30</b>	1659.0	1657.5	1654.5	1650.0	1642.5	1633.5	1623.0	1612.5	1597.5	1584.0
<b>35</b>	1516.5	1515.0	1512.0	1506.0	1497.0	1485.0	1471.5	1455.0	1437.0	1417.5
<b>40</b>	1359.0	1357.5	1353.0	1347.0	1335.0	1321.5	1303.5	1284.0	1263.0	1237.5
<b>45</b>	1191.0	1189.5	1185.0	1177.5	1164.0	1149.0	1129.5	1107.0	1083.0	1057.5
<b>50</b>	1018.5	1017.0	1012.5	1005.0	991.5	975.0	955.5	931.5	907.5	880.5
<b>55</b>	847.5	846.0	841.5	834.0	822.0	805.5	787.5	765.0	741.0	717.0
<b>60</b>	685.5	684.0	679.5	672.0	661.5	646.5	630.0	610.5	591.0	568.5
<b>65</b>	534.0	532.5	529.5	523.5	514.5	502.5	489.0	472.5	456.0	439.5
<b>70</b>	397.5	397.5	394.5	390.0	382.5	373.5	363.0	351.0	337.5	325.5
<b>75</b>	280.5	280.5	277.5	274.5	270.0	262.5	255.0	247.5	237.0	228.0
<b>80</b>	184.5	184.5	183.0	180.0	177.0	172.5	166.5	162.0	154.5	148.5
<b>85</b>	105.0	105.0	103.5	102.0	100.5	97.5	94.5	90.0	87.0	82.5
<b>90</b>	45.0	45.0	43.5	42.0	40.5	39.0	37.5	34.5	31.5	28.5
<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>	2047.5	2047.5	2047.5	2047.5	2047.5	2047.5	2047.5	2047.5	2047.5
<b>5</b>	2038.5	2037.0	2037.0	2037.0	2037.0	2037.0	2037.0	2037.0	2035.5
<b>10</b>	2001.0	1999.5	1998.0	1998.0	1996.5	1996.5	1996.5	1995.0	1995.0
<b>15</b>	1936.5	1933.5	1930.5	1927.5	1924.5	1923.0	1921.5	1921.5	1920.0
<b>20</b>	1842.0	1836.0	1830.0	1825.5	1821.0	1816.5	1813.5	1812.0	1812.0
<b>25</b>	1719.0	1708.5	1699.5	1690.5	1681.5	1675.5	1671.0	1668.0	1666.5
<b>30</b>	1569.0	1554.0	1539.0	1527.0	1515.0	1504.5	1498.5	1494.0	1491.0
<b>35</b>	1398.0	1378.5	1359.0	1342.5	1327.5	1315.5	1306.5	1300.5	1299.0
<b>40</b>	1215.0	1191.0	1170.0	1149.0	1134.0	1119.0	1110.0	1104.0	1101.0
<b>45</b>	1030.5	1005.0	982.5	961.5	943.5	930.0	919.5	913.5	912.0
<b>50</b>	855.0	829.5	807.0	787.5	771.0	757.5	748.5	742.5	741.0
<b>55</b>	693.0	670.5	649.5	633.0	618.0	606.0	598.5	592.5	591.0
<b>60</b>	549.0	529.5	513.0	498.0	486.0	475.5	469.5	465.0	463.5

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	421.5	406.5	393.0	381.0	372.0	364.5	358.5	355.5	354.0
<b>70</b>	313.5	301.5	291.0	282.0	274.5	268.5	264.0	261.0	261.0
<b>75</b>	219.0	211.5	204.0	196.5	192.0	187.5	183.0	181.5	180.0
<b>80</b>	142.5	136.5	132.0	126.0	123.0	118.5	115.5	114.0	114.0
<b>85</b>	78.0	75.0	70.5	67.5	64.5	61.5	58.5	57.0	55.5
<b>90</b>	27.0	24.0	21.0	18.0	15.0	12.0	10.5	7.5	6.0
<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	739.12	N.A.	15.80
0-30	1532.15	N.A.	32.80
0-40	2414.52	N.A.	51.80
0-60	3875.7	N.A.	83.10
0-80	4564.42	N.A.	97.80
0-90	4657.32	N.A.	99.80
10-90	4463.96	N.A.	95.70
20-40	1675.4	N.A.	35.90
20-50	2490.28	N.A.	53.40
40-70	1902.7	N.A.	40.80
60-80	688.72	N.A.	14.80
70-80	247.20	N.A.	5.30
80-90	92.90	N.A.	2.00
90-110	7.64	N.A.	0.20
90-120	7.64	N.A.	0.20
90-130	7.64	N.A.	0.20
90-150	7.64	N.A.	0.20
90-180	7.64	N.A.	0.20
110-180	0.00	N.A.	0.00
0-180	4664.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	193.36
10-20	545.76
20-30	793.03
30-40	882.37
40-50	814.88
50-60	646.30
60-70	441.52
70-80	247.20
80-90	92.90
90-100	7.64
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

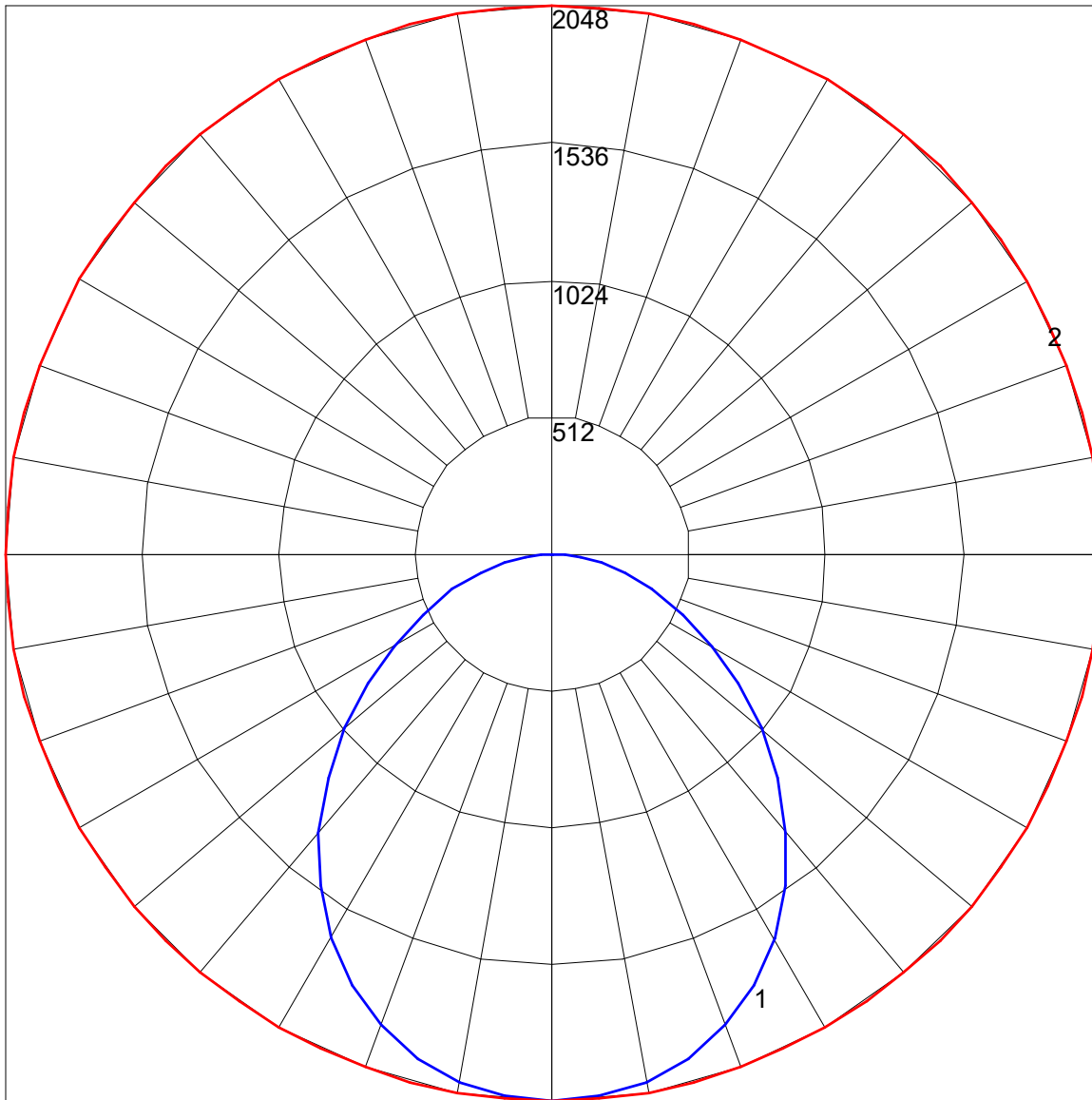
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	62	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 = 2047.5 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.)