

## IES Report

ZipThree® | 707 | 85° Asymmetric , downlight only | 90 CRI | HO

707-Z3-4-48-XX-XX-X-0-Z-HO-359-A1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	60	61	63	66
Total Lumens, 4' rail length (1219mm)	3179	3279	3346	3380
Lumens per foot (305mm)	795	820	837	845
Input Power (W), 4' rail length (1219mm)	53.8	53.8	53.8	53.8
Watts per foot (305mm)	13.5	13.5	13.5	13.5
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\_Z3\_HO\_359\_A1\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911544 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z3-48-Z-HO-359-A1-BL

[LUMINAIRE] ZipThree LED, 48", 3500K, 90 CRI, zipper board, 85° asymmetric lens down,

[MORE] high 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	3346
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	53.83
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.70
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.26
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	136492	133043	83129
55	119040	117474	71379
65	98091	96876	57397
75	75870	73886	43142
85	55958	50068	26506

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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>	1434.5	1434.5	1434.5	1434.5	1434.5	1434.5	1434.5	1434.5	1434.5	1434.5
<b>5</b>	1622.6	1622.6	1618.8	1616.9	1611.2	1605.5	1597.9	1588.4	1578.9	1567.5
<b>10</b>	1793.6	1791.7	1789.8	1782.2	1774.6	1765.1	1749.9	1734.7	1715.7	1694.8
<b>15</b>	1900.0	1898.1	1894.3	1886.7	1877.2	1863.9	1848.7	1829.7	1806.9	1780.3
<b>20</b>	1947.5	1945.6	1941.8	1936.1	1924.7	1911.4	1894.3	1875.3	1852.5	1824.0
<b>25</b>	1934.2	1932.3	1928.5	1922.8	1915.2	1903.8	1888.6	1869.6	1846.8	1820.2
<b>30</b>	1869.6	1867.7	1865.8	1862.0	1856.3	1846.8	1833.5	1818.3	1799.3	1774.6
<b>35</b>	1759.4	1759.4	1757.5	1753.7	1749.9	1742.3	1732.8	1721.4	1706.2	1685.3
<b>40</b>	1609.3	1609.3	1607.4	1605.5	1603.6	1597.9	1592.2	1582.7	1571.3	1556.1
<b>45</b>	1428.8	1426.9	1426.9	1426.9	1425.0	1423.1	1419.3	1413.6	1404.1	1392.7
<b>50</b>	1223.6	1223.6	1223.6	1223.6	1221.7	1221.7	1219.8	1216.0	1210.3	1200.8
<b>55</b>	1010.8	1010.8	1010.8	1010.8	1010.8	1012.7	1010.8	1008.9	1005.1	997.5
<b>60</b>	801.8	801.8	803.7	803.7	803.7	803.7	803.7	801.8	799.9	794.2
<b>65</b>	613.7	613.7	613.7	613.7	613.7	613.7	613.7	611.8	609.9	606.1
<b>70</b>	438.9	438.9	438.9	438.9	438.9	438.9	438.9	437.0	435.1	431.3
<b>75</b>	290.7	290.7	290.7	288.8	288.8	288.8	288.8	286.9	285.0	283.1
<b>80</b>	167.2	167.2	167.2	167.2	167.2	165.3	165.3	163.4	161.5	159.6
<b>85</b>	72.2	70.3	70.3	70.3	70.3	70.3	68.4	68.4	66.5	64.6
<b>90</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>	<u>95</u>
<b>0</b>	1434.5	1434.5	1434.5	1434.5	1434.5	1434.5	1434.5	1434.5	1434.5	1434.5
<b>5</b>	1556.1	1542.8	1527.6	1512.4	1497.2	1480.1	1463.0	1445.9	1428.8	1409.8
<b>10</b>	1672.0	1645.4	1616.9	1586.5	1554.2	1520.0	1483.9	1447.8	1407.9	1371.8
<b>15</b>	1749.9	1715.7	1677.7	1634.0	1590.3	1539.0	1485.8	1432.6	1373.7	1316.7
<b>20</b>	1789.8	1751.8	1706.2	1656.8	1601.7	1539.0	1470.6	1400.3	1328.1	1252.1
<b>25</b>	1786.0	1746.1	1698.6	1645.4	1584.6	1514.3	1436.4	1352.8	1265.4	1174.2
<b>30</b>	1742.3	1706.2	1658.7	1603.6	1540.9	1466.8	1379.4	1288.2	1189.4	1081.1
<b>35</b>	1658.7	1626.4	1582.7	1527.6	1466.8	1392.7	1301.5	1202.7	1096.3	982.3
<b>40</b>	1533.3	1502.9	1466.8	1419.3	1358.5	1288.2	1198.9	1100.1	989.9	872.1
<b>45</b>	1375.6	1350.9	1318.6	1278.7	1223.6	1153.3	1071.6	976.6	870.2	754.3
<b>50</b>	1189.4	1170.4	1143.8	1105.8	1058.3	997.5	925.3	837.9	735.3	632.7
<b>55</b>	988.0	974.7	951.9	921.5	881.6	830.3	763.8	689.7	606.1	518.7
<b>60</b>	786.6	773.3	758.1	733.4	701.1	657.4	606.1	545.3	476.9	406.6
<b>65</b>	600.4	590.9	577.6	558.6	533.9	499.7	457.9	410.4	359.1	302.1
<b>70</b>	427.5	419.9	410.4	397.1	378.1	355.3	324.9	290.7	254.6	214.7
<b>75</b>	279.3	273.6	267.9	258.4	245.1	229.9	210.9	188.1	165.3	138.7
<b>80</b>	157.7	153.9	148.2	142.5	136.8	127.3	115.9	104.5	91.2	77.9
<b>85</b>	62.7	60.8	58.9	57.0	53.2	49.4	43.7	39.9	34.2	30.4
<b>90</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>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
<b>0</b>	1434.5	1434.5	1434.5	1434.5	1434.5	1434.5	1434.5	1434.5	1434.5	1434.5
<b>5</b>	1392.7	1373.7	1356.6	1339.5	1322.4	1307.2	1293.9	1280.6	1267.3	1255.9
<b>10</b>	1331.9	1292.0	1255.9	1217.9	1181.8	1149.5	1117.2	1086.8	1060.2	1035.5
<b>15</b>	1259.7	1198.9	1141.9	1086.8	1031.7	982.3	936.7	893.0	855.0	818.9
<b>20</b>	1176.1	1096.3	1022.2	951.9	881.6	818.9	761.9	708.7	663.1	623.2
<b>25</b>	1079.2	986.1	900.6	817.0	735.3	665.0	602.3	547.2	499.7	457.9
<b>30</b>	978.5	874.0	777.1	685.9	602.3	526.3	465.5	410.4	364.8	328.7
<b>35</b>	870.2	760.0	642.2	568.1	484.5	412.3	353.4	304.0	266.0	233.7

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**CANDELA TABULATION - (Cont.)**

<b>40</b>	758.1	640.3	549.1	456.0	381.9	317.3	266.0	224.2	191.9	165.3
<b>45</b>	638.4	543.4	446.5	364.8	294.5	241.3	197.6	163.4	138.7	119.7
<b>50</b>	539.6	442.7	357.2	286.9	228.0	182.4	155.8	121.6	102.6	89.3
<b>55</b>	433.2	351.5	279.3	222.3	174.8	140.6	114.0	93.1	77.9	66.5
<b>60</b>	334.4	269.8	216.6	171.0	134.9	106.4	87.4	72.2	60.8	53.2
<b>65</b>	250.8	201.4	163.4	129.2	100.7	81.7	66.5	55.1	47.5	39.9
<b>70</b>	178.6	144.4	115.9	91.2	74.1	58.9	49.4	39.9	34.2	30.4
<b>75</b>	115.9	95.0	76.0	60.8	49.4	41.8	34.2	28.5	24.7	22.8
<b>80</b>	64.6	53.2	43.7	36.1	30.4	24.7	20.9	17.1	15.2	13.3
<b>85</b>	24.7	20.9	17.1	15.2	13.3	11.4	9.5	9.5	7.6	7.6
<b>90</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><b>150</b></u>	<u><b>155</b></u>	<u><b>160</b></u>	<u><b>165</b></u>	<u><b>170</b></u>	<u><b>175</b></u>	<u><b>180</b></u>
<b>0</b>	1434.5	1434.5	1434.5	1434.5	1434.5	1434.5	1434.5
<b>5</b>	1246.4	1236.9	1229.3	1225.5	1219.8	1217.9	1217.9
<b>10</b>	1014.6	995.6	980.4	970.9	961.4	955.7	955.7
<b>15</b>	788.5	763.8	742.9	727.7	716.3	708.7	706.8
<b>20</b>	587.1	560.5	537.7	520.6	507.3	499.7	497.8
<b>25</b>	423.7	397.1	376.2	359.1	347.7	342.0	338.2
<b>30</b>	298.3	275.5	256.5	243.2	233.7	228.0	226.1
<b>35</b>	209.0	190.0	174.8	163.4	157.7	153.9	152.0
<b>40</b>	146.3	131.1	119.7	112.1	106.4	104.5	102.6
<b>45</b>	104.5	93.1	85.5	79.8	76.0	74.1	72.2
<b>50</b>	77.9	70.3	64.6	58.9	57.0	55.1	55.1
<b>55</b>	58.9	53.2	49.4	45.6	43.7	41.8	41.8
<b>60</b>	45.6	41.8	38.0	36.1	34.2	34.2	34.2
<b>65</b>	36.1	32.3	30.4	28.5	28.5	26.6	26.6
<b>70</b>	26.6	24.7	22.8	22.8	20.9	20.9	20.9
<b>75</b>	19.0	19.0	17.1	17.1	15.2	15.2	15.2
<b>80</b>	13.3	11.4	11.4	11.4	9.5	9.5	9.5
<b>85</b>	5.7	5.7	5.7	5.7	5.7	5.7	5.7
<b>90</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Zone	Lumens	%Lamp	%Fixt
0-20	511.72	N.A.	15.30
0-30	1060.63	N.A.	31.70
0-40	1691.45	N.A.	50.50
0-60	2799.52	N.A.	83.70
0-80	3302.12	N.A.	98.70
0-90	3346.38	N.A.	100.00
10-90	3211.5	N.A.	96.00
20-40	1179.73	N.A.	35.30
20-50	1790.65	N.A.	53.50
40-70	1441.31	N.A.	43.10
60-80	502.60	N.A.	15.00
70-80	169.36	N.A.	5.10
80-90	44.25	N.A.	1.30
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3346.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	134.88
10-20	376.84
20-30	548.91
30-40	630.82
40-50	610.92
50-60	497.16
60-70	333.24
70-80	169.36
80-90	44.25
90-100	0.00
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

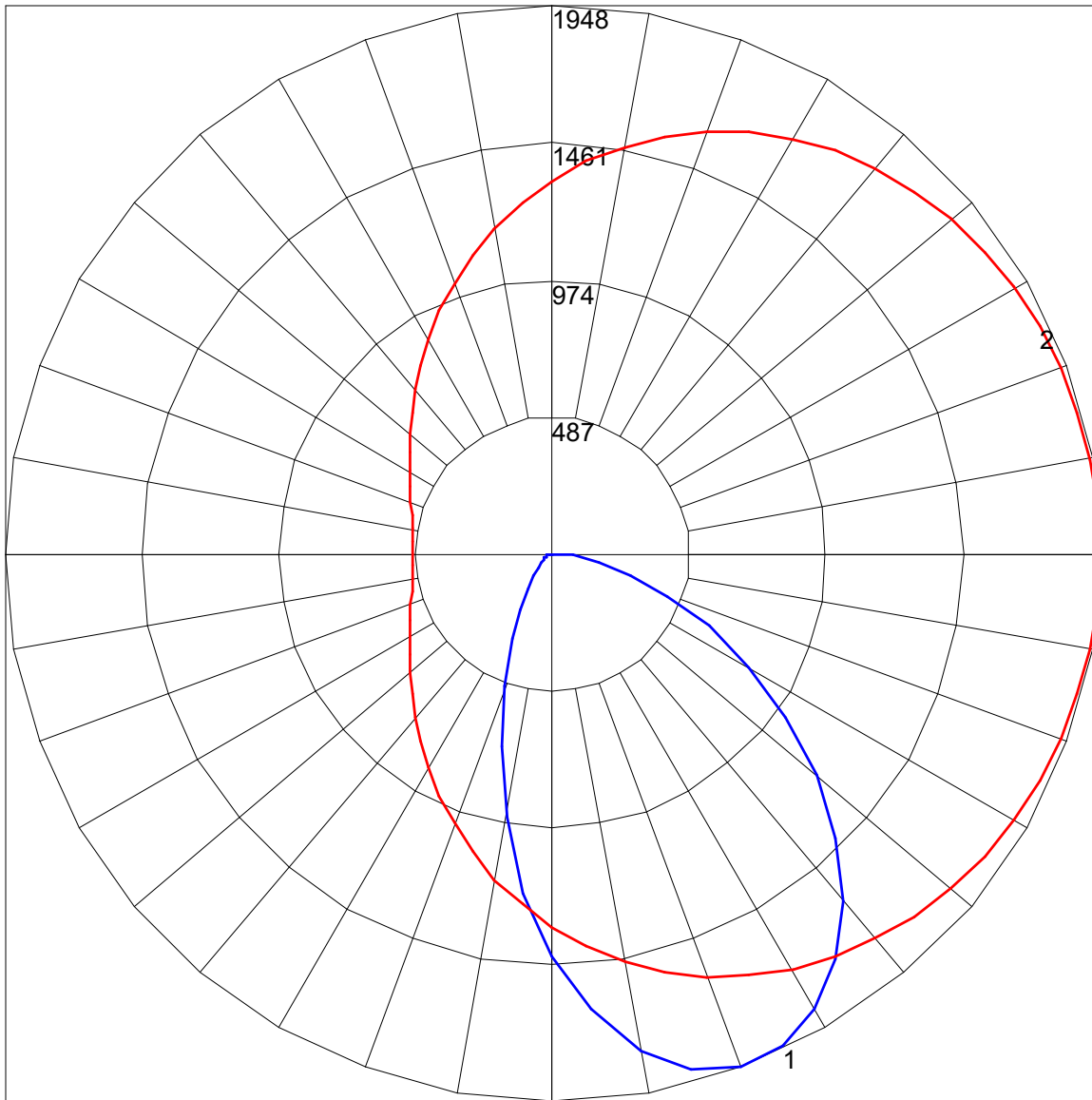
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	66	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	35	29	54	42	34	29	41	34	29	40	34	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 1947.5 Located At Horizontal Angle = 0, Vertical Angle = 20

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)