

## IES Report

ZipThree® | 707 | 85° Asymmetric , downlight only | 80 CRI | HO

707-Z3-4-48-XX-XX-X-0-Z-HO-35-A1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	69	71	73	73
Total Lumens, 4' rail length (1219mm)	3688	3804	3882	3882
Lumens per foot (305mm)	922	951	970	970
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	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\_Z3\_HO\_35\_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-35-A1-BL

[LUMINAIRE] ZipThree LED, 48", 3500K, 80 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	3875
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
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	158043	154050	96255
55	137836	136023	82650
65	113579	112172	66459
75	87849	85553	49954
85	64793	57973	30692

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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>	1661.0	1661.0	1661.0	1661.0	1661.0	1661.0	1661.0	1661.0	1661.0	1661.0
<b>5</b>	1878.8	1878.8	1874.4	1872.2	1865.6	1859.0	1850.2	1839.2	1828.2	1815.0
<b>10</b>	2076.8	2074.6	2072.4	2063.6	2054.8	2043.8	2026.2	2008.6	1986.6	1962.4
<b>15</b>	2200.0	2197.8	2193.4	2184.6	2173.6	2158.2	2140.6	2118.6	2092.2	2061.4
<b>20</b>	2255.0	2252.8	2248.4	2241.8	2228.6	2213.2	2193.4	2171.4	2145.0	2112.0
<b>25</b>	2239.6	2237.4	2233.0	2226.4	2217.6	2204.4	2186.8	2164.8	2138.4	2107.6
<b>30</b>	2164.8	2162.6	2160.4	2156.0	2149.4	2138.4	2123.0	2105.4	2083.4	2054.8
<b>35</b>	2037.2	2037.2	2035.0	2030.6	2026.2	2017.4	2006.4	1993.2	1975.6	1951.4
<b>40</b>	1863.4	1863.4	1861.2	1859.0	1856.8	1850.2	1843.6	1832.6	1819.4	1801.8
<b>45</b>	1654.4	1652.2	1652.2	1652.2	1650.0	1647.8	1643.4	1636.8	1625.8	1612.6
<b>50</b>	1416.8	1416.8	1416.8	1416.8	1414.6	1414.6	1412.4	1408.0	1401.4	1390.4
<b>55</b>	1170.4	1170.4	1170.4	1170.4	1170.4	1172.6	1170.4	1168.2	1163.8	1155.0
<b>60</b>	928.4	928.4	930.6	930.6	930.6	930.6	930.6	928.4	926.2	919.6
<b>65</b>	710.6	710.6	710.6	710.6	710.6	710.6	710.6	708.4	706.2	701.8
<b>70</b>	508.2	508.2	508.2	508.2	508.2	508.2	508.2	506.0	503.8	499.4
<b>75</b>	336.6	336.6	336.6	334.4	334.4	334.4	334.4	332.2	330.0	327.8
<b>80</b>	193.6	193.6	193.6	193.6	193.6	191.4	191.4	189.2	187.0	184.8
<b>85</b>	83.6	81.4	81.4	81.4	81.4	81.4	79.2	79.2	77.0	74.8
<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>	1661.0	1661.0	1661.0	1661.0	1661.0	1661.0	1661.0	1661.0	1661.0	1661.0
<b>5</b>	1801.8	1786.4	1768.8	1751.2	1733.6	1713.8	1694.0	1674.2	1654.4	1632.4
<b>10</b>	1936.0	1905.2	1872.2	1837.0	1799.6	1760.0	1718.2	1676.4	1630.2	1588.4
<b>15</b>	2026.2	1986.6	1942.6	1892.0	1841.4	1782.0	1720.4	1658.8	1590.6	1524.6
<b>20</b>	2072.4	2028.4	1975.6	1918.4	1854.6	1782.0	1702.8	1621.4	1537.8	1449.8
<b>25</b>	2068.0	2021.8	1966.8	1905.2	1834.8	1753.4	1663.2	1566.4	1465.2	1359.6
<b>30</b>	2017.4	1975.6	1920.6	1856.8	1784.2	1698.4	1597.2	1491.6	1377.2	1251.8
<b>35</b>	1920.6	1883.2	1832.6	1768.8	1698.4	1612.6	1507.0	1392.6	1269.4	1137.4
<b>40</b>	1775.4	1740.2	1698.4	1643.4	1573.0	1491.6	1388.2	1273.8	1146.2	1009.8
<b>45</b>	1592.8	1564.2	1526.8	1480.6	1416.8	1335.4	1240.8	1130.8	1007.6	873.4
<b>50</b>	1377.2	1355.2	1324.4	1280.4	1225.4	1155.0	1071.4	970.2	851.4	732.6
<b>55</b>	1144.0	1128.6	1102.2	1067.0	1020.8	961.4	884.4	798.6	701.8	600.6
<b>60</b>	910.8	895.4	877.8	849.2	811.8	761.2	701.8	631.4	552.2	470.8
<b>65</b>	695.2	684.2	668.8	646.8	618.2	578.6	530.2	475.2	415.8	349.8
<b>70</b>	495.0	486.2	475.2	459.8	437.8	411.4	376.2	336.6	294.8	248.6
<b>75</b>	323.4	316.8	310.2	299.2	283.8	266.2	244.2	217.8	191.4	160.6
<b>80</b>	182.6	178.2	171.6	165.0	158.4	147.4	134.2	121.0	105.6	90.2
<b>85</b>	72.6	70.4	68.2	66.0	61.6	57.2	50.6	46.2	39.6	35.2
<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>	1661.0	1661.0	1661.0	1661.0	1661.0	1661.0	1661.0	1661.0	1661.0	1661.0
<b>5</b>	1612.6	1590.6	1570.8	1551.0	1531.2	1513.6	1498.2	1482.8	1467.4	1454.2
<b>10</b>	1542.2	1496.0	1454.2	1410.2	1368.4	1331.0	1293.6	1258.4	1227.6	1199.0
<b>15</b>	1458.6	1388.2	1322.2	1258.4	1194.6	1137.4	1084.6	1034.0	990.0	948.2
<b>20</b>	1361.8	1269.4	1183.6	1102.2	1020.8	948.2	882.2	820.6	767.8	721.6
<b>25</b>	1249.6	1141.8	1042.8	946.0	851.4	770.0	697.4	633.6	578.6	530.2
<b>30</b>	1133.0	1012.0	899.8	794.2	697.4	609.4	539.0	475.2	422.4	380.6
<b>35</b>	1007.6	880.0	743.6	657.8	561.0	477.4	409.2	352.0	308.0	270.6

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**CANDELA TABULATION - (Cont.)**

<b>40</b>	877.8	741.4	635.8	528.0	442.2	367.4	308.0	259.6	222.2	191.4
<b>45</b>	739.2	629.2	517.0	422.4	341.0	279.4	228.8	189.2	160.6	138.6
<b>50</b>	624.8	512.6	413.6	332.2	264.0	211.2	180.4	140.8	118.8	103.4
<b>55</b>	501.6	407.0	323.4	257.4	202.4	162.8	132.0	107.8	90.2	77.0
<b>60</b>	387.2	312.4	250.8	198.0	156.2	123.2	101.2	83.6	70.4	61.6
<b>65</b>	290.4	233.2	189.2	149.6	116.6	94.6	77.0	63.8	55.0	46.2
<b>70</b>	206.8	167.2	134.2	105.6	85.8	68.2	57.2	46.2	39.6	35.2
<b>75</b>	134.2	110.0	88.0	70.4	57.2	48.4	39.6	33.0	28.6	26.4
<b>80</b>	74.8	61.6	50.6	41.8	35.2	28.6	24.2	19.8	17.6	15.4
<b>85</b>	28.6	24.2	19.8	17.6	15.4	13.2	11.0	11.0	8.8	8.8
<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>	1661.0	1661.0	1661.0	1661.0	1661.0	1661.0	1661.0
<b>5</b>	1443.2	1432.2	1423.4	1419.0	1412.4	1410.2	1410.2
<b>10</b>	1174.8	1152.8	1135.2	1124.2	1113.2	1106.6	1106.6
<b>15</b>	913.0	884.4	860.2	842.6	829.4	820.6	818.4
<b>20</b>	679.8	649.0	622.6	602.8	587.4	578.6	576.4
<b>25</b>	490.6	459.8	435.6	415.8	402.6	396.0	391.6
<b>30</b>	345.4	319.0	297.0	281.6	270.6	264.0	261.8
<b>35</b>	242.0	220.0	202.4	189.2	182.6	178.2	176.0
<b>40</b>	169.4	151.8	138.6	129.8	123.2	121.0	118.8
<b>45</b>	121.0	107.8	99.0	92.4	88.0	85.8	83.6
<b>50</b>	90.2	81.4	74.8	68.2	66.0	63.8	63.8
<b>55</b>	68.2	61.6	57.2	52.8	50.6	48.4	48.4
<b>60</b>	52.8	48.4	44.0	41.8	39.6	39.6	39.6
<b>65</b>	41.8	37.4	35.2	33.0	33.0	30.8	30.8
<b>70</b>	30.8	28.6	26.4	26.4	24.2	24.2	24.2
<b>75</b>	22.0	22.0	19.8	19.8	17.6	17.6	17.6
<b>80</b>	15.4	13.2	13.2	13.2	11.0	11.0	11.0
<b>85</b>	6.6	6.6	6.6	6.6	6.6	6.6	6.6
<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	592.52	N.A.	15.30
0-30	1228.09	N.A.	31.70
0-40	1958.52	N.A.	50.50
0-60	3241.55	N.A.	83.70
0-80	3823.51	N.A.	98.70
0-90	3874.75	N.A.	100.00
10-90	3718.58	N.A.	96.00
20-40	1366.00	N.A.	35.30
20-50	2073.38	N.A.	53.50
40-70	1668.89	N.A.	43.10
60-80	581.96	N.A.	15.00
70-80	196.11	N.A.	5.10
80-90	51.24	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	3874.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	156.17
10-20	436.35
20-30	635.58
30-40	730.42
40-50	707.38
50-60	575.65
60-70	385.85
70-80	196.11
80-90	51.24
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

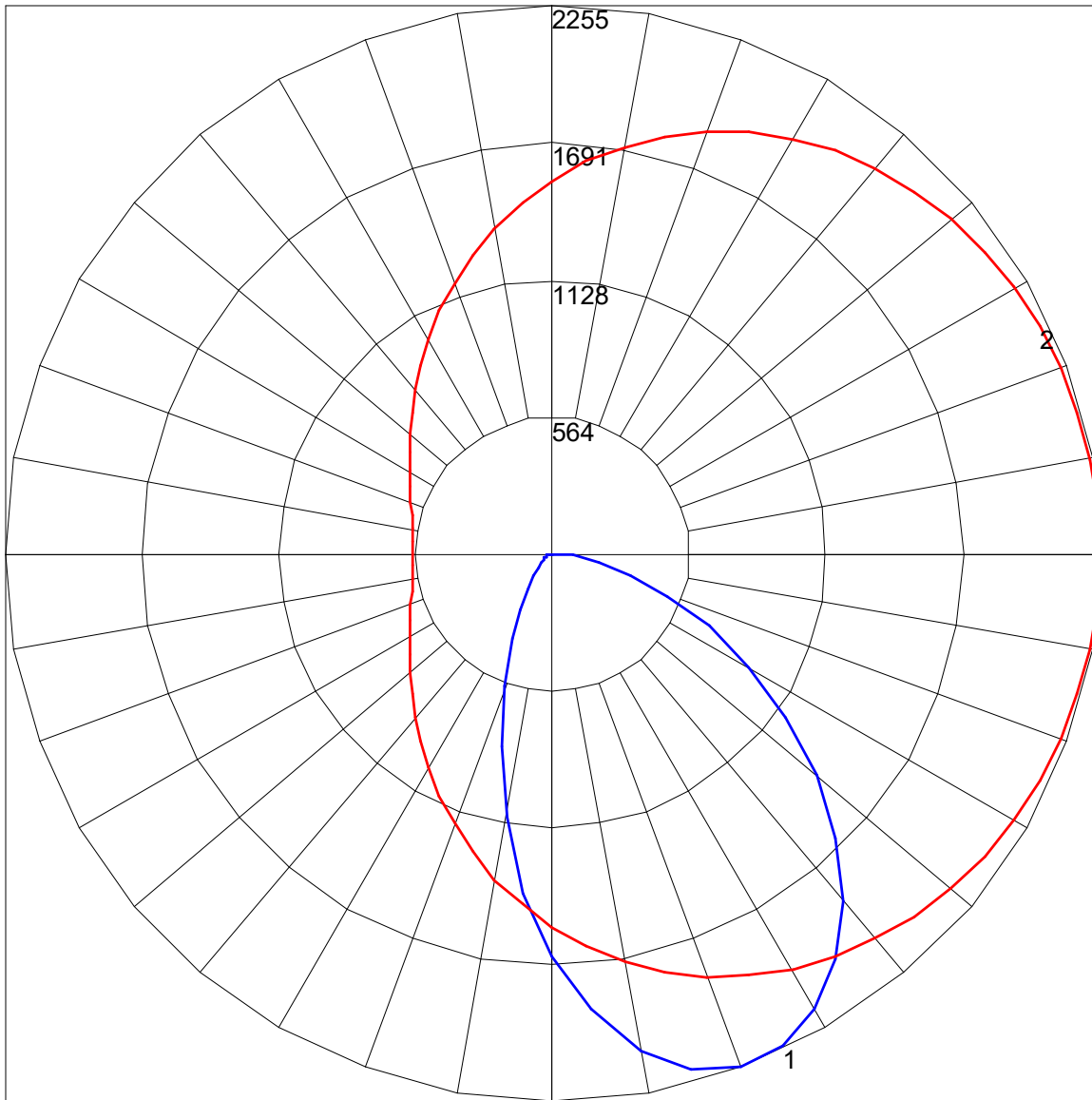
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	65	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 = 2255 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.)