

**IES Report**

**ZipThree® | Ceiling Cable | 707 | Symmetric, up | Soft Diffuse, down | 90 CRI | HO**

707-Z3-XX-4-48-CC-XX-XX-XX-X-0-Z-HO-359-U1D2-0-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	97	100	102	104
Total Lumens, 4' rail length (1219mm)	10361	10688	10906	11124
Lumens per foot (305mm)	2590	2672	2727	2781
Lumens per foot UP (305mm)	5714	5894	6014	6135
Lumens per foot DOWN (305mm)	4647	4794	4892	4990
Input Power (W), 4' rail length (1219mm)	107.2	107.2	107.2	107.2
Watts per foot (305mm)	26.8	26.8	26.8	26.8
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](http://vode.com).

\* R9: ~74 @ 3500K



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_707-Z3-CC-HO-359-U1D2-AL.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L081800701 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
[ISSUEDATE] 8/15/2018  
[MANUFAC] Vode Lighting  
[LUMCAT] 707-Z3-CC-Z-HO-359-U1D2-AL  
[LUMINAIRE] ZipThree Suspended, 48", 3500K, 90 CRI, zipper board,  
[MORE] symmetric lens up/soft diffuse lens down, 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	10906
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	107.2
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.25 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.02 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16026	16273	17079
55	14994	15321	16447
65	13412	13833	15355
75	10760	11284	13252
85	5878	6392	9314

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>	1702.4	1702.4	1702.4	1702.4	1702.4	1702.4	1702.4	1702.4	1702.4	1702.4
<b>5</b>	1694.8	1696.7	1694.8	1694.8	1696.7	1696.7	1694.8	1694.8	1694.8	1694.8
<b>10</b>	1673.9	1673.9	1673.9	1673.9	1673.9	1673.9	1673.9	1673.9	1673.9	1673.9
<b>15</b>	1635.9	1635.9	1635.9	1635.9	1635.9	1635.9	1635.9	1635.9	1635.9	1635.9
<b>20</b>	1584.6	1584.6	1584.6	1584.6	1584.6	1582.7	1582.7	1582.7	1582.7	1582.7
<b>25</b>	1518.1	1518.1	1518.1	1518.1	1518.1	1518.1	1518.1	1516.2	1516.2	1516.2
<b>30</b>	1440.2	1440.2	1440.2	1440.2	1440.2	1438.3	1438.3	1438.3	1438.3	1436.4
<b>35</b>	1349.0	1349.0	1349.0	1349.0	1349.0	1349.0	1349.0	1347.1	1347.1	1345.2
<b>40</b>	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1246.4	1246.4	1244.5
<b>45</b>	1138.1	1138.1	1138.1	1138.1	1136.2	1136.2	1136.2	1136.2	1134.3	1134.3
<b>50</b>	1018.4	1018.4	1018.4	1018.4	1016.5	1016.5	1016.5	1014.6	1014.6	1014.6
<b>55</b>	891.1	891.1	891.1	891.1	889.2	889.2	889.2	889.2	887.3	887.3
<b>60</b>	756.2	756.2	756.2	756.2	756.2	756.2	754.3	754.3	754.3	752.4
<b>65</b>	617.5	619.4	617.5	617.5	617.5	617.5	615.6	615.6	615.6	613.7
<b>70</b>	476.9	476.9	476.9	476.9	475.0	475.0	475.0	473.1	473.1	473.1
<b>75</b>	336.3	336.3	336.3	336.3	336.3	334.4	334.4	334.4	332.5	332.5
<b>80</b>	205.2	205.2	205.2	203.3	203.3	203.3	201.4	201.4	199.5	199.5
<b>85</b>	91.2	91.2	91.2	91.2	89.3	89.3	89.3	89.3	87.4	87.4
<b>90</b>	7.6	7.6	7.6	5.7	5.7	5.7	5.7	5.7	5.7	5.7
<b>95</b>	58.9	58.9	58.9	60.8	60.8	60.8	60.8	60.8	60.8	60.8
<b>100</b>	146.3	146.3	148.2	148.2	150.1	150.1	152.0	153.9	155.8	157.7
<b>105</b>	256.5	258.4	258.4	260.3	262.2	266.0	267.9	271.7	275.5	279.3
<b>110</b>	395.2	395.2	397.1	399.0	402.8	406.6	412.3	418.0	423.7	429.4
<b>115</b>	560.5	560.5	562.4	566.2	570.0	575.7	581.4	589.0	596.6	604.2
<b>120</b>	750.5	750.5	752.4	756.2	761.9	767.6	775.2	784.7	794.2	803.7
<b>125</b>	961.4	961.4	965.2	969.0	974.7	982.3	989.9	999.4	1008.9	1020.3
<b>130</b>	1185.6	1187.5	1189.4	1193.2	1198.9	1206.5	1216.0	1225.5	1236.9	1246.4
<b>135</b>	1413.6	1413.6	1415.5	1419.3	1425.0	1432.6	1440.2	1447.8	1457.3	1464.9
<b>140</b>	1628.3	1628.3	1630.2	1634.0	1637.8	1643.5	1649.2	1654.9	1660.6	1666.3
<b>145</b>	1818.3	1818.3	1820.2	1822.1	1824.0	1827.8	1829.7	1833.5	1837.3	1839.2
<b>150</b>	1974.1	1976.0	1976.0	1977.9	1977.9	1979.8	1981.7	1983.6	1985.5	1987.4
<b>155</b>	2101.4	2101.4	2101.4	2101.4	2101.4	2103.3	2103.3	2105.2	2107.1	2109.0
<b>160</b>	2200.2	2200.2	2200.2	2200.2	2202.1	2202.1	2202.1	2204.0	2205.9	2205.9
<b>165</b>	2276.2	2276.2	2276.2	2276.2	2278.1	2278.1	2280.0	2280.0	2281.9	2283.8
<b>170</b>	2335.1	2335.1	2335.1	2337.0	2337.0	2337.0	2338.9	2338.9	2340.8	2342.7
<b>175</b>	2375.0	2375.0	2375.0	2375.0	2376.9	2376.9	2376.9	2376.9	2376.9	2378.8
<b>180</b>	2390.2	2390.2	2390.2	2390.2	2390.2	2390.2	2390.2	2390.2	2390.2	2390.2

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>	1702.4	1702.4	1702.4	1702.4	1702.4	1702.4	1702.4	1702.4	1702.4
<b>5</b>	1696.7	1694.8	1694.8	1694.8	1694.8	1696.7	1694.8	1696.7	1694.8
<b>10</b>	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1672.0	1673.9	1672.0
<b>15</b>	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0
<b>20</b>	1582.7	1582.7	1582.7	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
<b>25</b>	1516.2	1516.2	1514.3	1514.3	1514.3	1514.3	1514.3	1514.3	1514.3
<b>30</b>	1436.4	1436.4	1436.4	1434.5	1434.5	1434.5	1434.5	1434.5	1434.5
<b>35</b>	1345.2	1345.2	1343.3	1343.3	1343.3	1343.3	1343.3	1343.3	1341.4
<b>40</b>	1244.5	1242.6	1242.6	1242.6	1242.6	1240.7	1240.7	1240.7	1240.7
<b>45</b>	1132.4	1132.4	1132.4	1130.5	1130.5	1130.5	1130.5	1128.6	1128.6
<b>50</b>	1012.7	1012.7	1012.7	1010.8	1010.8	1010.8	1008.9	1010.8	1008.9
<b>55</b>	885.4	885.4	885.4	883.5	883.5	883.5	883.5	883.5	883.5
<b>60</b>	752.4	752.4	750.5	750.5	750.5	748.6	748.6	748.6	748.6

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	613.7	611.8	611.8	611.8	609.9	609.9	609.9	609.9	609.9
<b>70</b>	471.2	471.2	469.3	469.3	469.3	467.4	467.4	467.4	467.4
<b>75</b>	330.6	330.6	328.7	328.7	326.8	326.8	326.8	324.9	324.9
<b>80</b>	197.6	197.6	195.7	193.8	193.8	191.9	191.9	191.9	191.9
<b>85</b>	85.5	85.5	83.6	83.6	81.7	81.7	81.7	79.8	79.8
<b>90</b>	3.8	3.8	3.8	3.8	3.8	3.8	3.8	1.9	1.9
<b>95</b>	60.8	60.8	60.8	60.8	60.8	60.8	60.8	58.9	58.9
<b>100</b>	159.6	159.6	161.5	163.4	163.4	163.4	165.3	163.4	165.3
<b>105</b>	283.1	286.9	290.7	294.5	296.4	298.3	300.2	300.2	300.2
<b>110</b>	435.1	440.8	446.5	452.2	456.0	457.9	459.8	461.7	461.7
<b>115</b>	611.8	621.3	628.9	634.6	638.4	642.2	646.0	647.9	647.9
<b>120</b>	813.2	822.7	832.2	837.9	843.6	849.3	853.1	855.0	856.9
<b>125</b>	1031.7	1041.2	1048.8	1056.4	1062.1	1067.8	1071.6	1075.4	1077.3
<b>130</b>	1255.9	1265.4	1273.0	1278.7	1284.4	1288.2	1293.9	1297.7	1299.6
<b>135</b>	1472.5	1480.1	1485.8	1489.6	1495.3	1501.0	1506.7	1510.5	1512.4
<b>140</b>	1670.1	1675.8	1679.6	1683.4	1687.2	1692.9	1698.6	1702.4	1706.2
<b>145</b>	1843.0	1846.8	1850.6	1852.5	1858.2	1862.0	1867.7	1871.5	1873.4
<b>150</b>	1989.3	1991.2	1995.0	1998.8	2002.6	2008.3	2012.1	2015.9	2015.9
<b>155</b>	2109.0	2112.8	2114.7	2118.5	2122.3	2128.0	2131.8	2133.7	2133.7
<b>160</b>	2207.8	2211.6	2213.5	2217.3	2221.1	2223.0	2226.8	2228.7	2228.7
<b>165</b>	2285.7	2287.6	2289.5	2293.3	2295.2	2297.1	2299.0	2300.9	2300.9
<b>170</b>	2342.7	2344.6	2346.5	2346.5	2348.4	2350.3	2350.3	2350.3	2350.3
<b>175</b>	2378.8	2378.8	2378.8	2378.8	2378.8	2380.7	2380.7	2380.7	2380.7
<b>180</b>	2390.2	2390.2	2390.2	2390.2	2390.2	2390.2	2390.2	2390.2	2390.2

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	622.53	N.A.	5.70
0-30	1321.29	N.A.	12.10
0-40	2163.38	N.A.	19.80
0-60	3830.18	N.A.	35.10
0-80	4789.44	N.A.	43.90
0-90	4891.86	N.A.	44.90
10-90	4730.73	N.A.	43.40
20-40	1540.84	N.A.	14.10
20-50	2415.27	N.A.	22.10
40-70	2274.13	N.A.	20.90
60-80	959.26	N.A.	8.80
70-80	351.94	N.A.	3.20
80-90	102.41	N.A.	0.90
90-110	378.61	N.A.	3.50
90-120	982.52	N.A.	9.00
90-130	1895.71	N.A.	17.40
90-150	4170.71	N.A.	38.20
90-180	6014.32	N.A.	55.10
110-180	5635.71	N.A.	51.70
0-180	10906.18	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

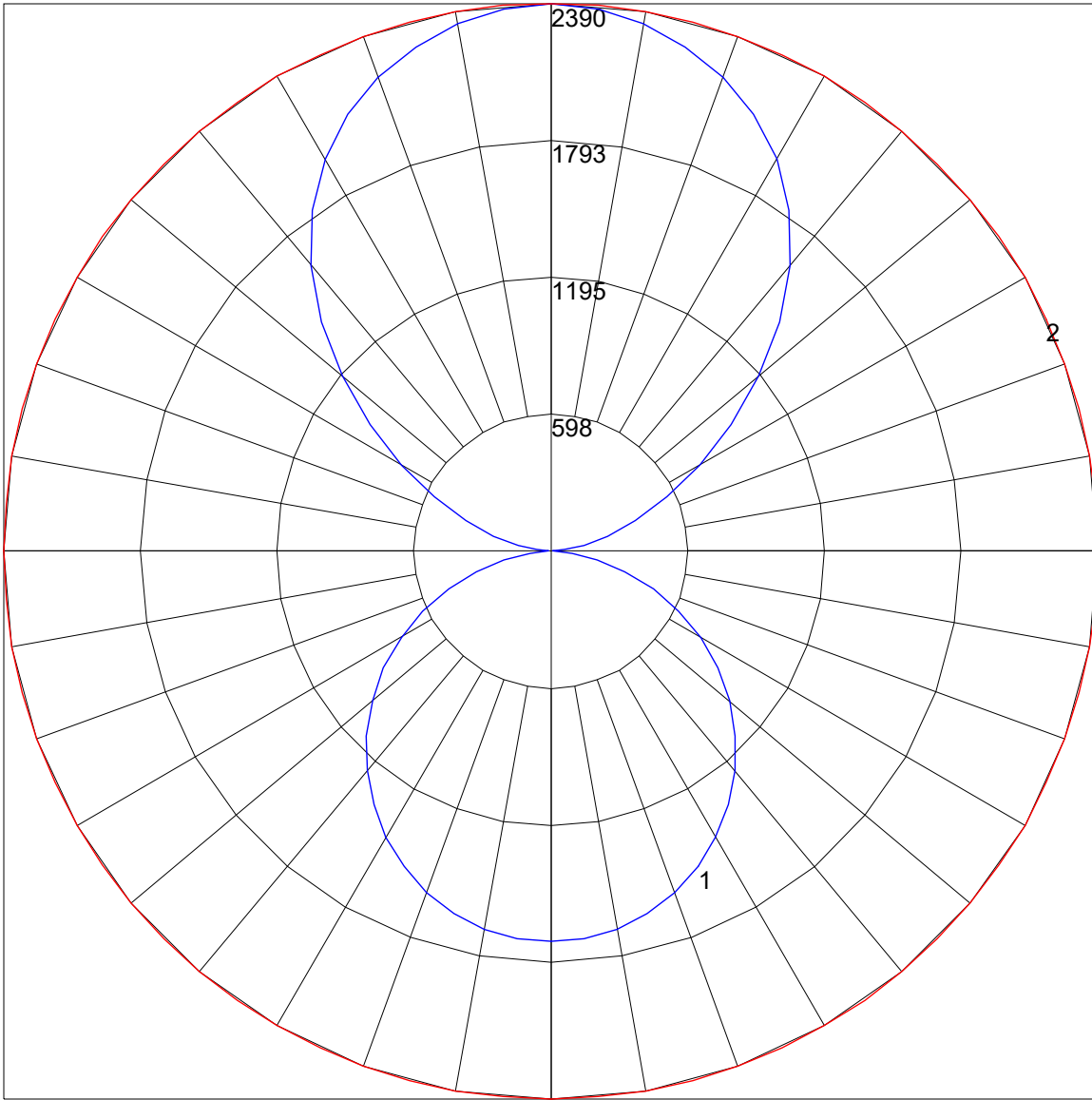
Zone	Lumens
0-10	161.12
10-20	461.41
20-30	698.76
30-40	842.08
40-50	874.43
50-60	792.38
60-70	607.32
70-80	351.94
80-90	102.41
90-100	76.82
100-110	301.79
110-120	603.91
120-130	913.18
130-140	1125.66
140-150	1149.35
150-160	972.62
160-170	645.12
170-180	225.86

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45	0
1	96	92	88	85	88	84	81	78	70	68	66	57	56	54	45	44	43	37	0
2	88	80	74	69	80	74	68	64	61	57	54	50	47	45	39	38	36	31	0
3	80	70	63	57	73	65	58	53	54	49	45	44	41	38	35	32	30	26	0
4	73	62	54	48	66	57	50	45	48	43	38	39	35	32	31	28	26	22	0
5	67	55	47	41	61	51	44	38	43	37	33	35	31	28	28	25	23	19	0
6	62	49	41	35	56	46	38	33	38	33	29	32	27	24	25	22	20	17	0
7	57	44	37	31	52	41	34	29	35	29	25	29	24	21	23	20	17	15	0
8	53	40	33	27	48	37	30	26	32	26	22	26	22	19	21	18	16	13	0
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	19	16	14	12	0
10	46	34	26	22	42	31	25	20	27	21	18	22	18	15	18	15	13	11	0

POLAR GRAPH



Maximum Candela = 2390.2 Located At Horizontal Angle = 0, Vertical Angle = 180  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)