

**IES Report**

**ZipThree® | Ceiling Cable | 707 | Symmetric with EdgeGlow, up | 80° Symmetric, down | 90 CRI | HO**

707-Z3-XX-4-48-CC-XX-XX-XX-X-0-Z-HO-359-U2S7-0-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	84	87	88	92
Total Lumens, 4' rail length (1219mm)	8949	9232	9420	9609
Lumens per foot (305mm)	2237	2308	2355	2402
Lumens per foot UP (305mm)	1382	1425	1455	1409
Lumens per foot DOWN (305mm)	855	882	900	873
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*	96	96	96	96

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\_U2S7\_BL.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L031805812 (SOURCE REPORT FOR REFERENCE)  
 [TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
 [ISSUEDATE] 4/12/2018  
 [MANUFAC] Vode Lighting  
 [LUMCAT] 707-Z3-CC-Z-HO-359-U2S7-BL  
 [LUMINAIRE] ZipThree Suspended, 48", 3500K, 90 CRI, zipper board,  
 [MORE] symmetric lens with edgeglow up/80° symmetric lens down, 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	9420
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	107.19
Ballast Factor	1.00
CIE Type	Semi-Indirect
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)	3.98 ft
Luminous Height	0.02 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10420	12807	11717
55	4852	7254	6576
65	2198	3615	3653
75	1039	1814	2181
85	369	698	1114

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>
0.0	2090.0	2090.0	2090.0	2090.0	2090.0	2090.0	2090.0	2090.0	2090.0	2090.0
1.0	2088.1	2090.0	2090.0	2090.0	2090.0	2090.0	2090.0	2090.0	2090.0	2090.0
3.0	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2
5.0	2078.6	2078.6	2078.6	2078.6	2078.6	2078.6	2078.6	2078.6	2078.6	2078.6
7.0	2067.2	2067.2	2067.2	2067.2	2067.2	2067.2	2067.2	2067.2	2067.2	2067.2
9.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2052.0	2050.1
11.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2033.0	2031.1	2033.0	2031.1
13.0	2008.3	2010.2	2008.3	2008.3	2008.3	2008.3	2008.3	2008.3	2008.3	2008.3
15.0	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1979.8	1979.8	1979.8
17.0	1949.4	1949.4	1949.4	1949.4	1949.4	1949.4	1949.4	1947.5	1947.5	1947.5
19.5	1900.0	1900.0	1900.0	1900.0	1900.0	1901.9	1901.9	1901.9	1900.0	1898.1
22.5	1825.9	1827.8	1827.8	1829.7	1831.6	1831.6	1831.6	1831.6	1831.6	1829.7
25.5	1736.6	1738.5	1738.5	1742.3	1744.2	1748.0	1749.9	1749.9	1749.9	1748.0
29.0	1607.4	1609.3	1613.1	1616.9	1622.6	1628.3	1632.1	1635.9	1635.9	1634.0
33.0	1426.9	1428.8	1432.6	1442.1	1453.5	1463.0	1472.5	1478.2	1480.1	1480.1
37.5	1179.9	1181.8	1191.3	1204.6	1219.8	1238.8	1254.0	1267.3	1274.9	1274.9
42.5	877.8	881.6	893.0	910.1	932.9	957.6	980.4	999.4	1014.6	1020.3
47.5	594.7	598.5	609.9	627.0	649.8	676.4	703.0	727.7	746.7	756.2
55.0	286.9	288.8	296.4	309.7	324.9	345.8	366.7	387.6	406.6	418.0
65.0	100.7	100.7	104.5	108.3	114.0	123.5	133.0	142.5	152.0	159.6
75.0	32.3	34.2	34.2	36.1	38.0	39.9	43.7	45.6	49.4	53.2
85.0	5.7	5.7	5.7	5.7	7.6	7.6	7.6	7.6	7.6	9.5
90.0	24.7	24.7	22.8	22.8	22.8	20.9	19.0	17.1	15.2	13.3
95.0	72.2	72.2	72.2	72.2	70.3	70.3	68.4	68.4	66.5	64.6
100.0	150.1	150.1	152.0	152.0	152.0	152.0	152.0	152.0	152.0	153.9
105.0	250.8	250.8	252.7	252.7	254.6	256.5	258.4	262.2	264.1	267.9
110.0	378.1	378.1	380.0	381.9	385.7	389.5	393.3	399.0	404.7	410.4
115.0	533.9	535.8	537.7	539.6	545.3	549.1	556.7	562.4	571.9	579.5
120.0	718.2	720.1	722.0	725.8	731.5	737.2	744.8	754.3	763.8	775.2
125.0	927.2	929.1	931.0	936.7	942.4	950.0	957.6	967.1	978.5	988.0
130.0	1151.4	1151.4	1155.2	1159.0	1164.7	1172.3	1181.8	1191.3	1200.8	1210.3
135.0	1375.6	1377.5	1379.4	1383.2	1388.9	1394.6	1402.2	1409.8	1419.3	1426.9
140.0	1588.4	1588.4	1590.3	1592.2	1596.0	1601.7	1605.5	1611.2	1615.0	1620.7
145.0	1768.9	1768.9	1770.8	1772.7	1774.6	1776.5	1778.4	1782.2	1784.1	1787.9
150.0	1917.1	1917.1	1919.0	1919.0	1920.9	1920.9	1922.8	1922.8	1924.7	1926.6
155.0	2034.9	2034.9	2034.9	2034.9	2034.9	2036.8	2036.8	2038.7	2040.6	2040.6
160.0	2128.0	2128.0	2128.0	2128.0	2129.9	2129.9	2129.9	2131.8	2131.8	2133.7
165.0	2200.2	2200.2	2200.2	2200.2	2200.2	2200.2	2202.1	2202.1	2202.1	2202.1
170.0	2249.6	2249.6	2249.6	2249.6	2249.6	2249.6	2249.6	2249.6	2249.6	2249.6
175.0	2276.2	2276.2	2276.2	2276.2	2276.2	2276.2	2276.2	2278.1	2276.2	2276.2
180.0	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7

Vert. 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>
0.0	2090.0	2090.0	2090.0	2090.0	2090.0	2090.0	2090.0	2090.0	2090.0
1.0	2090.0	2090.0	2090.0	2090.0	2090.0	2090.0	2090.0	2090.0	2088.1
3.0	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2	2086.2
5.0	2078.6	2078.6	2078.6	2078.6	2078.6	2078.6	2078.6	2078.6	2078.6
7.0	2067.2	2067.2	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3
9.0	2050.1	2050.1	2050.1	2050.1	2050.1	2050.1	2050.1	2050.1	2050.1
11.0	2031.1	2031.1	2029.2	2029.2	2029.2	2029.2	2029.2	2029.2	2027.3
13.0	2006.4	2006.4	2006.4	2004.5	2004.5	2004.5	2004.5	2002.6	2002.6
15.0	1977.9	1976.0	1976.0	1974.1	1974.1	1972.2	1972.2	1972.2	1972.2

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**CANDELA TABULATION - (Cont.)**

<b>17.0</b>	1943.7	1943.7	1941.8	1939.9	1938.0	1936.1	1934.2	1934.2	1934.2
<b>19.5</b>	1896.2	1894.3	1890.5	1888.6	1886.7	1882.9	1882.9	1881.0	1881.0
<b>22.5</b>	1825.9	1822.1	1818.3	1814.5	1808.8	1806.9	1803.1	1801.2	1801.2
<b>25.5</b>	1744.2	1738.5	1730.9	1725.2	1717.6	1713.8	1708.1	1706.2	1706.2
<b>29.0</b>	1628.3	1620.7	1611.2	1601.7	1592.2	1584.6	1578.9	1575.1	1573.2
<b>33.0</b>	1472.5	1463.0	1449.7	1436.4	1423.1	1409.8	1402.2	1396.5	1394.6
<b>37.5</b>	1269.2	1255.9	1240.7	1221.7	1202.7	1187.5	1176.1	1168.5	1164.7
<b>42.5</b>	1014.6	1001.3	984.2	961.4	940.5	923.4	908.2	898.7	896.8
<b>47.5</b>	756.2	744.8	727.7	706.8	687.8	668.8	655.5	646.0	644.1
<b>55.0</b>	421.8	418.0	408.5	395.2	381.9	368.6	359.1	353.4	351.5
<b>65.0</b>	163.4	163.4	163.4	159.6	155.8	150.1	146.3	144.4	144.4
<b>75.0</b>	55.1	57.0	57.0	57.0	55.1	55.1	55.1	53.2	53.2
<b>85.0</b>	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
<b>90.0</b>	11.4	9.5	9.5	7.6	5.7	3.8	3.8	1.9	1.9
<b>95.0</b>	62.7	62.7	60.8	58.9	58.9	57.0	55.1	55.1	53.2
<b>100.0</b>	153.9	153.9	153.9	153.9	153.9	153.9	153.9	153.9	152.0
<b>105.0</b>	269.8	273.6	275.5	279.3	279.3	281.2	281.2	281.2	281.2
<b>110.0</b>	416.1	421.8	425.6	429.4	433.2	435.1	437.0	437.0	437.0
<b>115.0</b>	587.1	594.7	602.3	608.0	613.7	615.6	617.5	619.4	619.4
<b>120.0</b>	784.7	794.2	801.8	809.4	815.1	818.9	820.8	822.7	822.7
<b>125.0</b>	999.4	1008.9	1018.4	1024.1	1029.8	1035.5	1037.4	1039.3	1041.2
<b>130.0</b>	1221.7	1229.3	1236.9	1242.6	1248.3	1252.1	1254.0	1255.9	1257.8
<b>135.0</b>	1432.6	1440.2	1444.0	1449.7	1453.5	1457.3	1459.2	1459.2	1461.1
<b>140.0</b>	1624.5	1628.3	1632.1	1635.9	1637.8	1639.7	1641.6	1643.5	1643.5
<b>145.0</b>	1789.8	1791.7	1795.5	1797.4	1799.3	1799.3	1801.2	1801.2	1801.2
<b>150.0</b>	1928.5	1930.4	1932.3	1934.2	1934.2	1934.2	1936.1	1936.1	1936.1
<b>155.0</b>	2042.5	2044.4	2044.4	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3
<b>160.0</b>	2133.7	2133.7	2133.7	2133.7	2133.7	2133.7	2135.6	2135.6	2135.6
<b>165.0</b>	2202.1	2202.1	2202.1	2202.1	2202.1	2202.1	2202.1	2202.1	2202.1
<b>170.0</b>	2249.6	2249.6	2249.6	2249.6	2249.6	2249.6	2249.6	2249.6	2249.6
<b>175.0</b>	2276.2	2278.1	2276.2	2276.2	2278.1	2278.1	2278.1	2278.1	2278.1
<b>180.0</b>	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7	2285.7

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	718.98	N.A.	7.60
0-30	1469.83	N.A.	15.60
0-40	2194.58	N.A.	23.30
0-60	3230.22	N.A.	34.30
0-80	3565.68	N.A.	37.90
0-90	3601.92	N.A.	38.20
10-90	3441.73	N.A.	36.50
20-40	1475.59	N.A.	15.70
20-50	2175.11	N.A.	23.10
40-70	1274.8	N.A.	13.50
60-80	335.47	N.A.	3.60
70-80	96.31	N.A.	1.00
80-90	36.24	N.A.	0.40
90-110	369.47	N.A.	3.90
90-120	948.09	N.A.	10.10
90-130	1831.8	N.A.	19.40
90-150	4040.76	N.A.	42.90
90-180	5818.22	N.A.	61.80
110-180	5448.75	N.A.	57.80
0-180	9420.14	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	160.19
10-20	558.79
20-30	750.85
30-40	724.75
40-50	699.51
50-60	336.13
60-70	239.16
70-80	96.31
80-90	36.24
90-100	80.37
100-110	289.10
110-120	578.62
120-130	883.71
130-140	1094.14
140-150	1114.82
150-160	939.81
160-170	621.18
170-180	216.47

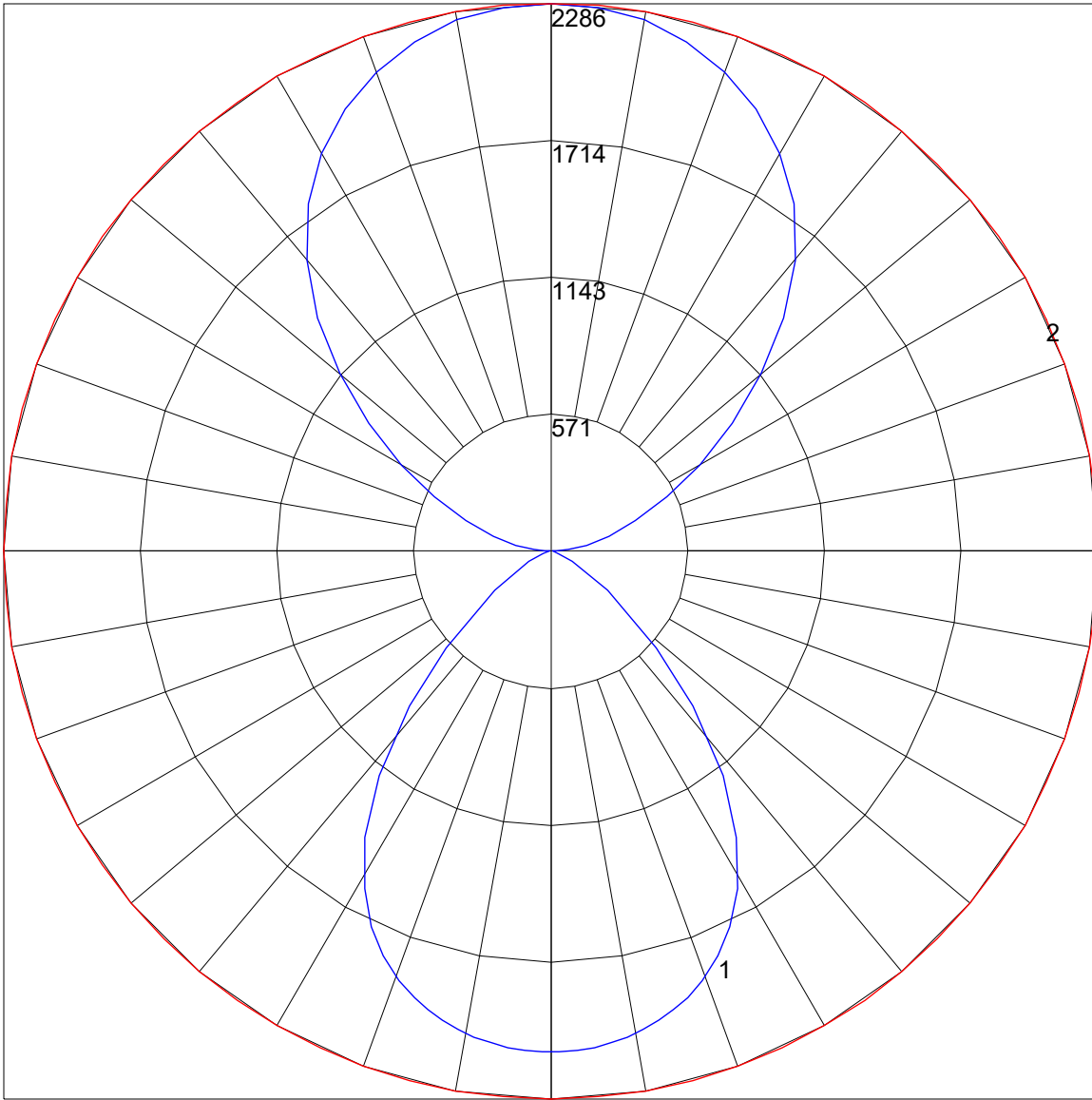
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	96	92	88	85	87	84	81	78	68	66	64	54	53	52	41	40	40	34
2	88	81	76	71	80	74	69	65	61	57	55	48	46	44	37	36	35	29
3	81	72	65	60	73	66	60	55	54	50	47	44	41	38	34	32	30	26
4	74	64	57	51	67	59	52	48	49	44	40	39	36	34	31	28	27	23
5	68	58	50	44	62	53	46	41	44	39	35	36	32	30	28	26	24	20
6	63	52	44	39	57	48	41	36	40	35	31	32	29	26	26	23	21	18
7	58	47	39	34	53	43	37	32	36	31	28	30	26	23	24	21	19	17
8	54	43	35	30	49	39	33	29	33	28	25	27	24	21	22	19	17	15
9	51	39	32	27	46	36	30	26	30	26	22	25	22	19	20	18	16	14
10	47	36	29	24	43	33	27	23	28	23	20	23	20	17	19	16	15	13

POLAR GRAPH



Maximum Candela = 2285.7 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.)