

**IES Report**

**ZipThree® | Ceiling Cable | 707 | Symmetric, up | 60° Symmetric, down | 90 CRI | HO**

707-Z3-XX-4-48-CC-XX-XX-XX-X-0-Z-HO-359-U1S2-0-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	73	76	77	79
Total Lumens, 4' rail length (1219mm)	7802	8049	8213	8377
Lumens per foot (305mm)	1951	2012	2053	2094
Lumens per foot UP (305mm)	1331	1373	1401	1358
Lumens per foot DOWN (305mm)	619	639	652	632
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\_U1S2\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L031805809 (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-U1S2-BL

[LUMINAIRE] ZipThree Suspended, 48", 3500K, 90 CRI, zipper board,

[MORE] symmetric lens up/60° 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	8213
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
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	3321	6287	11110
55	1510	3099	6043
65	788	1593	3221
75	428	907	1869
85	246	419	891

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>0.0</b>	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6
<b>1.0</b>	2095.7	2095.7	2095.7	2095.7	2095.7	2095.7	2095.7	2095.7	2095.7	2095.7
<b>3.0</b>	2084.3	2084.3	2084.3	2084.3	2084.3	2086.2	2086.2	2086.2	2088.1	2088.1
<b>5.0</b>	2061.5	2061.5	2061.5	2061.5	2063.4	2065.3	2067.2	2069.1	2071.0	2072.9
<b>7.0</b>	2025.4	2025.4	2025.4	2027.3	2031.1	2033.0	2036.8	2040.6	2044.4	2048.2
<b>9.0</b>	1976.0	1976.0	1977.9	1981.7	1985.5	1991.2	1996.9	2002.6	2008.3	2015.9
<b>11.0</b>	1915.2	1915.2	1919.0	1922.8	1928.5	1936.1	1945.6	1955.1	1964.6	1974.1
<b>13.0</b>	1839.2	1841.1	1844.9	1850.6	1860.1	1871.5	1882.9	1896.2	1909.5	1924.7
<b>15.0</b>	1751.8	1753.7	1759.4	1767.0	1780.3	1793.6	1810.7	1827.8	1846.8	1865.8
<b>17.0</b>	1651.1	1653.0	1660.6	1672.0	1685.3	1704.3	1725.2	1748.0	1772.7	1797.4
<b>19.5</b>	1510.5	1514.3	1521.9	1537.1	1556.1	1578.9	1605.5	1635.9	1668.2	1700.5
<b>22.5</b>	1324.3	1328.1	1339.5	1356.6	1381.3	1409.8	1444.0	1482.0	1523.8	1565.6
<b>25.5</b>	1128.6	1132.4	1145.7	1166.6	1195.1	1229.3	1269.2	1314.8	1364.2	1413.6
<b>29.0</b>	904.4	908.2	921.5	944.3	974.7	1012.7	1058.3	1109.6	1164.7	1221.7
<b>33.0</b>	670.7	676.4	687.8	708.7	739.1	777.1	822.7	875.9	934.8	997.5
<b>37.5</b>	459.8	461.7	473.1	492.1	518.7	551.0	590.9	640.3	695.4	754.3
<b>42.5</b>	288.8	292.6	300.2	313.5	332.5	359.1	389.5	429.4	475.0	524.4
<b>47.5</b>	180.5	182.4	188.1	197.6	210.9	228.0	250.8	279.3	311.6	347.7
<b>55.0</b>	89.3	91.2	93.1	98.8	104.5	114.0	125.4	140.6	157.7	178.6
<b>65.0</b>	36.1	36.1	38.0	39.9	41.8	45.6	51.3	57.0	62.7	70.3
<b>75.0</b>	13.3	15.2	15.2	15.2	17.1	17.1	19.0	20.9	22.8	26.6
<b>85.0</b>	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.7	5.7
<b>90.0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>95.0</b>	43.7	43.7	43.7	45.6	45.6	45.6	45.6	47.5	47.5	49.4
<b>100.0</b>	119.7	119.7	119.7	121.6	123.5	123.5	127.3	129.2	131.1	134.9
<b>105.0</b>	216.6	216.6	216.6	218.5	222.3	226.1	229.9	233.7	239.4	243.2
<b>110.0</b>	338.2	338.2	340.1	343.9	347.7	353.4	359.1	366.7	372.4	380.0
<b>115.0</b>	488.3	488.3	492.1	495.9	501.6	507.3	514.9	524.4	533.9	543.4
<b>120.0</b>	665.0	665.0	668.8	672.6	680.2	687.8	695.4	706.8	718.2	729.6
<b>125.0</b>	864.5	866.4	868.3	874.0	881.6	889.2	898.7	910.1	923.4	936.7
<b>130.0</b>	1081.1	1083.0	1084.9	1090.6	1098.2	1105.8	1117.2	1128.6	1140.0	1153.3
<b>135.0</b>	1303.4	1305.3	1307.2	1312.9	1318.6	1326.2	1335.7	1345.2	1356.6	1366.1
<b>140.0</b>	1516.2	1518.1	1520.0	1523.8	1529.5	1535.2	1542.8	1550.4	1558.0	1565.6
<b>145.0</b>	1708.1	1708.1	1710.0	1711.9	1715.7	1719.5	1725.2	1730.9	1734.7	1740.4
<b>150.0</b>	1869.6	1869.6	1869.6	1871.5	1873.4	1877.2	1879.1	1882.9	1884.8	1888.6
<b>155.0</b>	1996.9	1996.9	1998.8	1998.8	2000.7	2002.6	2004.5	2006.4	2008.3	2010.2
<b>160.0</b>	2099.5	2099.5	2099.5	2099.5	2101.4	2101.4	2103.3	2103.3	2105.2	2107.1
<b>165.0</b>	2177.4	2177.4	2177.4	2177.4	2177.4	2179.3	2179.3	2181.2	2181.2	2183.1
<b>170.0</b>	2232.5	2232.5	2234.4	2234.4	2234.4	2234.4	2236.3	2236.3	2236.3	2238.2
<b>175.0</b>	2268.6	2268.6	2268.6	2270.5	2270.5	2270.5	2270.5	2270.5	2270.5	2270.5
<b>180.0</b>	2281.9	2281.9	2281.9	2281.9	2281.9	2281.9	2281.9	2281.9	2281.9	2281.9

Vert. Horizontal Angles  
 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>0.0</b>	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6	2097.6
<b>1.0</b>	2095.7	2095.7	2095.7	2095.7	2095.7	2097.6	2097.6	2097.6	2097.6
<b>3.0</b>	2090.0	2090.0	2090.0	2091.9	2091.9	2091.9	2091.9	2091.9	2091.9
<b>5.0</b>	2074.8	2076.7	2078.6	2080.5	2082.4	2082.4	2084.3	2084.3	2084.3
<b>7.0</b>	2052.0	2055.8	2059.6	2063.4	2065.3	2067.2	2069.1	2071.0	2071.0
<b>9.0</b>	2021.6	2029.2	2034.9	2040.6	2044.4	2048.2	2052.0	2053.9	2053.9
<b>11.0</b>	1985.5	1995.0	2002.6	2012.1	2017.8	2023.5	2027.3	2029.2	2031.1
<b>13.0</b>	1938.0	1953.2	1964.6	1976.0	1985.5	1993.1	1998.8	2002.6	2002.6
<b>15.0</b>	1884.8	1901.9	1919.0	1934.2	1945.6	1957.0	1962.7	1968.4	1968.4

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**CANDELA TABULATION - (Cont.)**

<b>17.0</b>	1822.1	1844.9	1865.8	1884.8	1900.0	1913.3	1922.8	1928.5	1930.4
<b>19.5</b>	1730.9	1761.3	1789.8	1812.6	1833.5	1850.6	1862.0	1869.6	1871.5
<b>22.5</b>	1605.5	1645.4	1679.6	1711.9	1738.5	1759.4	1774.6	1784.1	1786.0
<b>25.5</b>	1463.0	1512.4	1556.1	1596.0	1628.3	1653.0	1672.0	1681.5	1685.3
<b>29.0</b>	1282.5	1339.5	1392.7	1440.2	1478.2	1508.6	1529.5	1542.8	1546.6
<b>33.0</b>	1064.0	1126.7	1185.6	1238.8	1282.5	1316.7	1341.4	1354.7	1360.4
<b>37.5</b>	820.8	883.5	944.3	999.4	1045.0	1081.1	1105.8	1121.0	1124.8
<b>42.5</b>	579.5	634.6	689.7	737.2	779.0	813.2	836.0	849.3	855.0
<b>47.5</b>	389.5	433.2	473.1	511.1	547.2	571.9	590.9	602.3	606.1
<b>55.0</b>	199.5	224.2	247.0	267.9	286.9	302.1	313.5	321.1	323.0
<b>65.0</b>	79.8	89.3	96.9	106.4	112.1	119.7	123.5	127.3	127.3
<b>75.0</b>	28.5	32.3	34.2	38.0	39.9	41.8	43.7	45.6	45.6
<b>85.0</b>	5.7	5.7	5.7	7.6	7.6	7.6	7.6	7.6	7.6
<b>90.0</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>95.0</b>	49.4	51.3	51.3	51.3	51.3	53.2	51.3	51.3	51.3
<b>100.0</b>	136.8	138.7	142.5	144.4	146.3	148.2	148.2	148.2	148.2
<b>105.0</b>	248.9	254.6	260.3	264.1	267.9	269.8	271.7	273.6	273.6
<b>110.0</b>	389.5	397.1	402.8	410.4	416.1	419.9	421.8	423.7	423.7
<b>115.0</b>	552.9	564.3	571.9	581.4	587.1	592.8	596.6	598.5	598.5
<b>120.0</b>	741.0	752.4	763.8	773.3	780.9	786.6	790.4	792.3	794.2
<b>125.0</b>	948.1	961.4	972.8	982.3	988.0	995.6	999.4	1003.2	1005.1
<b>130.0</b>	1164.7	1176.1	1185.6	1195.1	1202.7	1208.4	1214.1	1217.9	1217.9
<b>135.0</b>	1377.5	1387.0	1394.6	1402.2	1407.9	1413.6	1419.3	1423.1	1423.1
<b>140.0</b>	1573.2	1580.8	1586.5	1592.2	1597.9	1601.7	1607.4	1609.3	1611.2
<b>145.0</b>	1746.1	1749.9	1755.6	1759.4	1763.2	1768.9	1772.7	1774.6	1776.5
<b>150.0</b>	1892.4	1894.3	1898.1	1901.9	1905.7	1909.5	1913.3	1915.2	1915.2
<b>155.0</b>	2012.1	2014.0	2017.8	2019.7	2023.5	2025.4	2029.2	2031.1	2031.1
<b>160.0</b>	2109.0	2110.9	2112.8	2116.6	2118.5	2120.4	2122.3	2124.2	2124.2
<b>165.0</b>	2185.0	2186.9	2186.9	2188.8	2190.7	2192.6	2194.5	2194.5	2194.5
<b>170.0</b>	2238.2	2240.1	2240.1	2242.0	2242.0	2242.0	2243.9	2243.9	2243.9
<b>175.0</b>	2270.5	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4	2272.4
<b>180.0</b>	2281.9	2281.9	2281.9	2281.9	2281.9	2281.9	2281.9	2281.9	2281.9

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	684.66	N.A.	8.30
0-30	1306.97	N.A.	15.90
0-40	1813.23	N.A.	22.10
0-60	2407.08	N.A.	29.30
0-80	2588.71	N.A.	31.50
0-90	2608.23	N.A.	31.80
10-90	2449.14	N.A.	29.80
20-40	1128.57	N.A.	13.70
20-50	1541.15	N.A.	18.80
40-70	721.68	N.A.	8.80
60-80	181.63	N.A.	2.20
70-80	53.80	N.A.	0.70
80-90	19.52	N.A.	0.20
90-110	327.91	N.A.	4.00
90-120	871.81	N.A.	10.60
90-130	1710.24	N.A.	20.80
90-150	3846.79	N.A.	46.80
90-180	5604.76	N.A.	68.20
110-180	5276.85	N.A.	64.30
0-180	8212.99	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	159.09
10-20	525.57
20-30	622.31
30-40	506.26
40-50	412.58
50-60	181.27
60-70	127.83
70-80	53.80
80-90	19.52
90-100	62.93
100-110	264.98
110-120	543.90
120-130	838.43
130-140	1050.57
140-150	1085.98
150-160	926.02
160-170	616.21
170-180	215.74

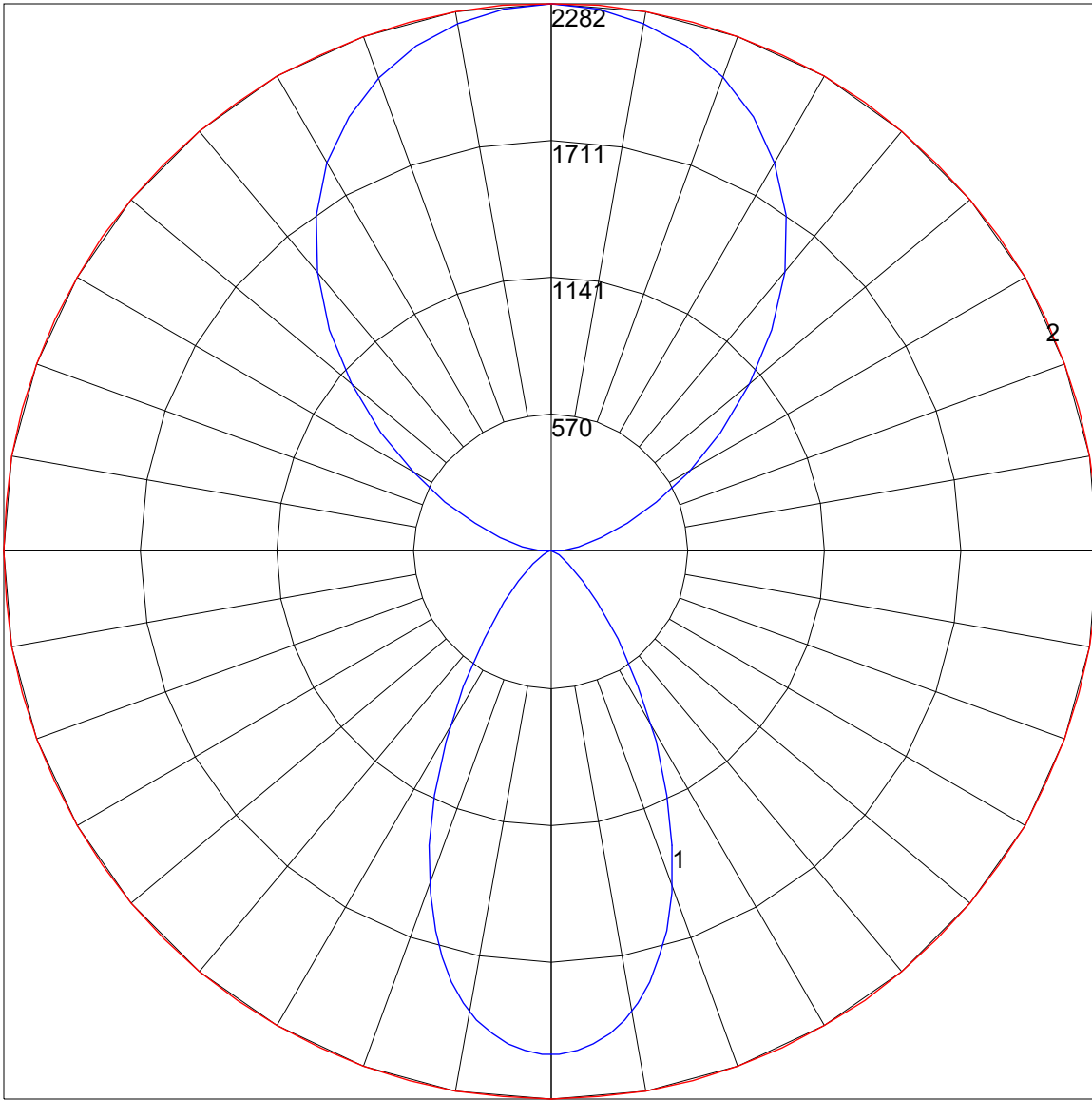
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	103	103	103	103	92	92	92	92	73	73	73	56	56	56	39	39	39	32
1	95	91	87	84	85	82	79	76	65	63	62	50	49	48	36	35	35	28
2	87	80	75	70	78	73	68	64	58	55	53	45	43	41	33	32	31	25
3	80	71	65	60	72	65	59	55	52	48	45	41	38	36	30	29	27	23
4	73	64	57	51	66	58	52	47	47	43	39	37	34	32	28	26	24	20
5	68	57	50	45	61	52	46	41	43	38	35	34	31	28	25	24	22	19
6	63	52	44	39	57	47	41	36	39	34	31	31	28	25	23	21	20	17
7	58	47	40	35	53	43	37	32	35	31	27	28	25	23	22	20	18	15
8	54	43	36	31	49	39	33	29	33	28	25	26	23	21	20	18	17	14
9	51	39	32	28	46	36	30	26	30	26	22	24	21	19	19	17	15	13
10	47	36	30	25	43	33	27	23	28	23	20	23	19	17	18	16	14	12

POLAR GRAPH



Maximum Candela = 2281.9 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.)