

## IES Report

ZipThree® | Ceiling Cable | 707 | Symmetric, up | 40° Symmetric, down | 80 CRI | HO

707-Z3-XX-4-48-CC-XX-XX-XX-X-0-Z-HO-35-U1S1-0-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	82	84	86	86
Total Lumens, 4' rail length (1219mm)	8721	8997	9180	9180
Lumens per foot (305mm)	2180	2249	2295	2295
Lumens per foot UP (305mm)	1664	1716	1751	1751
Lumens per foot DOWN (305mm)	517	533	544	544
Input Power (W), 4' rail length (1219mm)	107.7	107.7	107.7	107.7
Watts per foot (305mm)	27.0	27.0	27.0	27.0
CRI	82	82	82	82

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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\_CC\_HO\_35\_U1S1\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911548 (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-CC-HO-35-U1S1-BL

[LUMINAIRE] ZipThree LED Suspended, 48", 3500K, 80 CRI, zipper board, symmetric lens up/40° symmetric 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	9164
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	107.66
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)	0.26 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	2027	4172	8300
55	934	1914	3878
65	511	962	1927
75	275	581	1127
85	140	158	744

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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>0.0</b>	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8
<b>1.0</b>	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8
<b>3.0</b>	2085.6	2085.6	2085.6	2085.6	2085.6	2087.8	2087.8	2087.8	2090.0	2090.0
<b>5.0</b>	2050.4	2050.4	2052.6	2052.6	2054.8	2057.0	2059.2	2063.6	2065.8	2070.2
<b>7.0</b>	1991.0	1993.2	1993.2	1997.6	2002.0	2006.4	2010.8	2019.6	2026.2	2032.8
<b>9.0</b>	1916.2	1916.2	1918.4	1925.0	1931.6	1940.4	1949.2	1960.2	1973.4	1984.4
<b>11.0</b>	1823.8	1823.8	1828.2	1837.0	1845.8	1859.0	1874.4	1889.8	1907.4	1925.0
<b>13.0</b>	1711.6	1713.8	1720.4	1731.4	1744.6	1762.2	1782.0	1804.0	1828.2	1852.4
<b>15.0</b>	1590.6	1592.8	1601.6	1612.6	1632.4	1654.4	1678.6	1707.2	1738.0	1771.0
<b>17.0</b>	1458.6	1460.8	1471.8	1487.2	1507.0	1535.6	1564.2	1601.6	1639.0	1678.6
<b>19.5</b>	1282.6	1287.0	1298.0	1315.6	1342.0	1375.0	1410.2	1454.2	1500.4	1548.8
<b>22.5</b>	1071.4	1075.8	1089.0	1108.8	1139.6	1174.8	1218.8	1269.4	1324.4	1381.6
<b>25.5</b>	869.0	873.4	886.6	908.6	939.4	979.0	1027.4	1082.4	1141.8	1205.6
<b>29.0</b>	657.8	662.2	675.4	697.4	728.2	765.6	814.0	869.0	930.6	998.8
<b>33.0</b>	462.0	464.2	477.4	495.0	521.4	556.6	600.6	651.2	710.6	776.6
<b>37.5</b>	301.4	303.6	312.4	325.6	347.6	374.0	409.2	451.0	501.6	556.6
<b>42.5</b>	184.8	187.0	191.4	202.4	215.6	235.4	259.6	290.4	327.8	367.4
<b>47.5</b>	112.2	114.4	118.8	123.2	134.2	147.4	162.8	182.6	204.6	233.2
<b>55.0</b>	57.2	57.2	59.4	61.6	66.0	72.6	81.4	90.2	101.2	114.4
<b>65.0</b>	24.2	24.2	24.2	26.4	28.6	30.8	33.0	37.4	39.6	44.0
<b>75.0</b>	8.8	8.8	8.8	11.0	11.0	11.0	13.2	13.2	15.4	17.6
<b>85.0</b>	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
<b>90.0</b>	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
<b>95.0</b>	66.0	66.0	66.0	66.0	68.2	68.2	68.2	70.4	70.4	70.4
<b>100.0</b>	149.6	149.6	149.6	151.8	154.0	156.2	160.6	165.0	169.4	173.8
<b>105.0</b>	268.4	268.4	270.6	275.0	279.4	283.8	290.4	297.0	303.6	308.0
<b>110.0</b>	422.4	424.6	426.8	429.0	435.6	442.2	448.8	455.4	462.0	468.6
<b>115.0</b>	602.8	605.0	607.2	609.4	616.0	622.6	629.2	638.0	651.2	668.8
<b>120.0</b>	807.4	807.4	811.8	818.4	827.2	840.4	853.6	873.4	895.4	915.2
<b>125.0</b>	1067.0	1067.0	1073.6	1082.4	1093.4	1108.8	1124.2	1139.6	1157.2	1172.6
<b>130.0</b>	1350.8	1350.8	1355.2	1364.0	1370.6	1383.8	1394.8	1408.0	1421.2	1436.6
<b>135.0</b>	1621.4	1621.4	1625.8	1630.2	1639.0	1647.8	1658.8	1669.8	1683.0	1696.2
<b>140.0</b>	1874.4	1876.6	1878.8	1883.2	1889.8	1898.6	1907.4	1918.4	1929.4	1940.4
<b>145.0</b>	2105.4	2107.6	2109.8	2112.0	2118.6	2125.2	2131.8	2140.6	2151.6	2160.4
<b>150.0</b>	2307.8	2307.8	2310.0	2312.2	2316.6	2323.2	2327.6	2334.2	2343.0	2349.6
<b>155.0</b>	2477.2	2477.2	2479.4	2481.6	2483.8	2488.2	2492.6	2497.0	2503.6	2510.2
<b>160.0</b>	2615.8	2615.8	2615.8	2618.0	2620.2	2622.4	2624.6	2629.0	2631.2	2635.6
<b>165.0</b>	2719.2	2719.2	2719.2	2721.4	2721.4	2721.4	2723.6	2725.8	2728.0	2728.0
<b>170.0</b>	2789.6	2789.6	2789.6	2789.6	2789.6	2789.6	2791.8	2791.8	2791.8	2794.0
<b>175.0</b>	2829.2	2829.2	2827.0	2829.2	2829.2	2829.2	2829.2	2829.2	2829.2	2829.2
<b>180.0</b>	2838.0	2838.0	2838.0	2838.0	2838.0	2838.0	2838.0	2838.0	2838.0	2838.0

**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>
<b>0.0</b>	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8
<b>1.0</b>	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8
<b>3.0</b>	2092.2	2092.2	2094.4	2094.4	2094.4	2096.6	2096.6	2096.6	2096.6
<b>5.0</b>	2072.4	2076.8	2079.0	2081.2	2083.4	2085.6	2087.8	2087.8	2087.8
<b>7.0</b>	2039.4	2046.0	2052.6	2059.2	2063.6	2068.0	2070.2	2072.4	2074.6
<b>9.0</b>	1997.6	2008.6	2019.6	2028.4	2039.4	2046.0	2050.4	2052.6	2054.8
<b>11.0</b>	1942.6	1960.2	1977.8	1993.2	2004.2	2015.2	2024.0	2028.4	2030.6
<b>13.0</b>	1876.6	1900.8	1925.0	1944.8	1964.6	1977.8	1988.8	1995.4	1997.6
<b>15.0</b>	1801.8	1834.8	1863.4	1892.0	1914.0	1933.8	1949.2	1955.8	1960.2

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**CANDELA TABULATION - (Cont.)**

<b>17.0</b>	1718.2	1757.8	1795.2	1828.2	1856.8	1881.0	1898.6	1909.6	1914.0
<b>19.5</b>	1599.4	1647.8	1691.8	1735.8	1773.2	1801.8	1826.0	1839.2	1843.6
<b>22.5</b>	1441.0	1500.4	1555.4	1610.4	1654.4	1691.8	1720.4	1738.0	1742.4
<b>25.5</b>	1273.8	1339.8	1405.8	1467.4	1518.0	1564.2	1595.0	1614.8	1621.4
<b>29.0</b>	1071.4	1146.2	1216.6	1284.8	1342.0	1390.4	1427.8	1449.8	1456.4
<b>33.0</b>	847.0	919.6	994.4	1060.4	1119.8	1170.4	1207.8	1229.8	1238.6
<b>37.5</b>	618.2	684.2	748.0	809.6	864.6	908.6	943.8	963.6	970.2
<b>42.5</b>	415.8	464.2	512.6	561.0	602.8	640.2	664.4	679.8	686.4
<b>47.5</b>	264.0	297.0	330.0	363.0	391.6	415.8	433.4	444.4	448.8
<b>55.0</b>	129.8	145.2	160.6	173.8	187.0	200.2	209.0	213.4	215.6
<b>65.0</b>	50.6	55.0	59.4	63.8	70.4	72.6	77.0	79.2	79.2
<b>75.0</b>	17.6	19.8	22.0	24.2	24.2	26.4	28.6	28.6	28.6
<b>85.0</b>	4.4	4.4	4.4	4.4	4.4	4.4	4.4	6.6	6.6
<b>90.0</b>	2.2	2.2	2.2	4.4	4.4	4.4	4.4	4.4	4.4
<b>95.0</b>	72.6	72.6	72.6	74.8	74.8	74.8	74.8	77.0	77.0
<b>100.0</b>	178.2	182.6	184.8	184.8	184.8	191.4	193.6	193.6	193.6
<b>105.0</b>	314.6	316.8	319.0	330.0	338.8	343.2	345.4	345.4	345.4
<b>110.0</b>	475.2	488.4	503.8	517.0	523.6	528.0	530.2	530.2	530.2
<b>115.0</b>	688.6	706.2	719.4	730.4	737.0	741.4	745.8	748.0	748.0
<b>120.0</b>	930.6	946.0	959.2	968.0	976.8	983.4	990.0	992.2	992.2
<b>125.0</b>	1188.0	1201.2	1214.4	1227.6	1238.6	1247.4	1254.0	1256.2	1258.4
<b>130.0</b>	1449.8	1465.2	1480.6	1493.8	1504.8	1513.6	1522.4	1524.6	1526.8
<b>135.0</b>	1709.4	1724.8	1738.0	1753.4	1764.4	1773.2	1779.8	1784.2	1786.4
<b>140.0</b>	1953.6	1966.8	1980.0	1991.0	2002.0	2008.6	2015.2	2019.6	2019.6
<b>145.0</b>	2171.4	2182.4	2193.4	2202.2	2211.0	2217.6	2222.0	2224.2	2224.2
<b>150.0</b>	2358.4	2367.2	2373.8	2382.6	2387.0	2391.4	2393.6	2395.8	2395.8
<b>155.0</b>	2514.6	2519.0	2525.6	2530.0	2532.2	2534.4	2536.6	2538.8	2538.8
<b>160.0</b>	2637.8	2642.2	2644.4	2646.6	2648.8	2651.0	2651.0	2651.0	2651.0
<b>165.0</b>	2730.2	2732.4	2732.4	2734.6	2734.6	2736.8	2736.8	2736.8	2736.8
<b>170.0</b>	2794.0	2794.0	2794.0	2794.0	2796.2	2796.2	2796.2	2796.2	2796.2
<b>175.0</b>	2829.2	2829.2	2829.2	2829.2	2829.2	2829.2	2829.2	2829.2	2831.4
<b>180.0</b>	2838.0	2838.0	2838.0	2838.0	2838.0	2838.0	2838.0	2838.0	2838.0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	658.45	N.A.	7.20
0-30	1205.81	N.A.	13.20
0-40	1614.98	N.A.	17.60
0-60	2042.18	N.A.	22.30
0-80	2158.53	N.A.	23.60
0-90	2171.69	N.A.	23.70
10-90	2013.5	N.A.	22.00
20-40	956.53	N.A.	10.40
20-50	1260.87	N.A.	13.80
40-70	509.59	N.A.	5.60
60-80	116.36	N.A.	1.30
70-80	33.96	N.A.	0.40
80-90	13.16	N.A.	0.10
90-110	419.38	N.A.	4.60
90-120	1094.58	N.A.	11.90
90-130	2139.93	N.A.	23.40
90-150	4799.23	N.A.	52.40
90-180	6992.00	N.A.	76.30
110-180	6572.62	N.A.	71.70
0-180	9163.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	158.19
10-20	500.25
20-30	547.36
30-40	409.17
40-50	304.34
50-60	122.86
60-70	82.40
70-80	33.96
80-90	13.16
90-100	86.29
100-110	333.09
110-120	675.21
120-130	1045.34
130-140	1308.95
140-150	1350.36
150-160	1154.42
160-170	769.48
170-180	268.86

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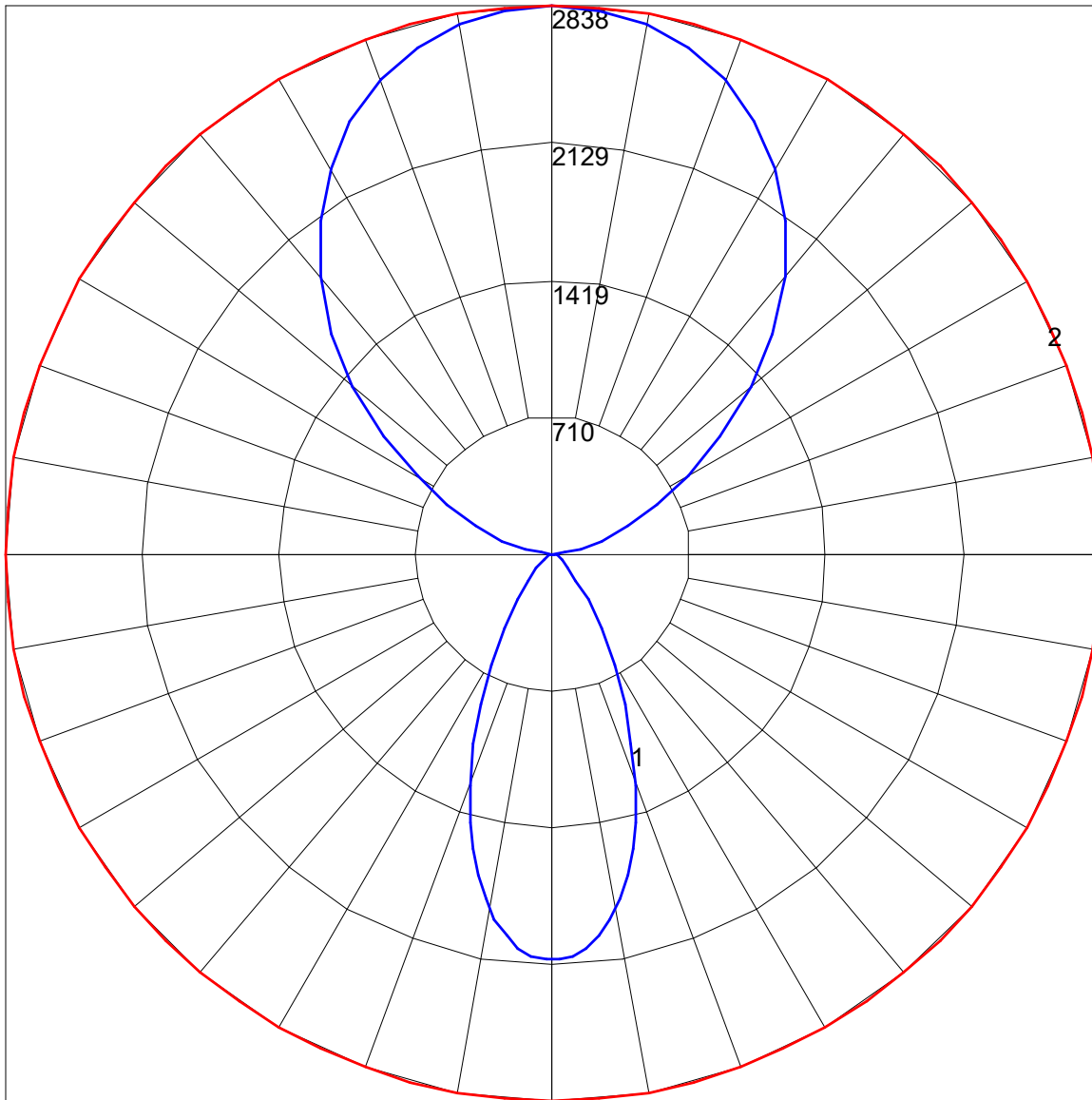
PHOTOMETRIC FILENAME : VODE\_707\_Z3\_CC\_HO\_35\_U1S1\_BL.IES

## 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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32	24
1	93	89	85	82	82	79	76	74	61	59	58	45	44	43	29	29	28	21
2	85	78	73	68	76	70	66	62	55	52	49	40	38	37	27	26	25	19
3	78	70	63	58	69	62	57	53	49	45	42	36	34	32	25	23	22	17
4	72	62	55	50	64	56	50	45	44	40	37	33	30	28	23	21	20	16
5	66	56	49	43	59	50	44	40	40	36	32	30	27	25	21	19	18	15
6	61	50	43	38	55	45	39	35	36	32	29	27	25	23	19	18	17	13
7	57	46	38	33	51	41	35	31	33	29	25	25	22	20	18	16	15	12
8	53	42	35	30	47	38	32	27	30	26	23	23	20	18	17	15	14	11
9	49	38	31	27	44	35	29	25	28	24	21	22	19	17	16	14	13	11
10	46	35	28	24	41	32	26	22	26	22	19	20	17	15	15	13	12	10

POLAR GRAPH



Maximum Candela = 2838 Located At Horizontal Angle = 0, Vertical Angle = 180  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)