

## IES Report

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

707-Z3-XX-4-48-CC-XX-XX-XX-X-0-Z-HO-359-U1S7-0-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	100	103	105	109
Total Lumens, 4' rail length (1219mm)	10680	11017	11242	11354
Lumens per foot (305mm)	2670	2754	2810	2839
Lumens per foot UP (305mm)	1522	1570	1603	1619
Lumens per foot DOWN (305mm)	1148	1184	1208	1220
Input Power (W), 4' rail length (1219mm)	107.7	107.7	107.7	107.7
Watts per foot (305mm)	27	27	27	27
CRI	94	94	94	94

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).



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE\_707\_Z3\_CC\_HO\_359\_U1S7.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911550 (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-359-U1S7-AL

[LUMINAIRE] ZipThree LED Suspended, 48", 3500K, 90 CRI, zipper board, symmetric lens up/80° symmetric lens down,

[MORE] 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	11242
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	107.66
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)	0.26 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	14054	15784	15101
55	8530	10555	10903
65	5414	6982	8228
75	3616	4704	6290
85	1808	2317	3642

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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>	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7
<b>1.0</b>	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7
<b>3.0</b>	2511.8	2509.9	2509.9	2511.8	2511.8	2511.8	2511.8	2511.8	2511.8	2511.8
<b>5.0</b>	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2
<b>7.0</b>	2492.8	2492.8	2492.8	2492.8	2492.8	2492.8	2492.8	2492.8	2492.8	2492.8
<b>9.0</b>	2475.7	2477.6	2477.6	2475.7	2477.6	2475.7	2475.7	2477.6	2475.7	2475.7
<b>11.0</b>	2454.8	2454.8	2454.8	2454.8	2454.8	2454.8	2454.8	2456.7	2454.8	2454.8
<b>13.0</b>	2428.2	2428.2	2428.2	2430.1	2430.1	2430.1	2430.1	2430.1	2430.1	2428.2
<b>15.0</b>	2397.8	2397.8	2397.8	2397.8	2397.8	2399.7	2399.7	2397.8	2397.8	2397.8
<b>17.0</b>	2359.8	2359.8	2359.8	2361.7	2361.7	2361.7	2361.7	2361.7	2361.7	2359.8
<b>19.5</b>	2302.8	2302.8	2304.7	2304.7	2306.6	2306.6	2308.5	2306.6	2306.6	2304.7
<b>22.5</b>	2219.2	2219.2	2221.1	2221.1	2224.9	2226.8	2226.8	2226.8	2224.9	2223.0
<b>25.5</b>	2116.6	2116.6	2120.4	2122.3	2126.1	2128.0	2129.9	2129.9	2128.0	2124.2
<b>29.0</b>	1970.3	1972.2	1976.0	1981.7	1987.4	1991.2	1995.0	1996.9	1993.1	1989.3
<b>33.0</b>	1768.9	1772.7	1778.4	1786.0	1795.5	1803.1	1810.7	1812.6	1810.7	1805.0
<b>37.5</b>	1504.8	1506.7	1514.3	1527.6	1540.9	1554.2	1565.6	1573.2	1573.2	1567.5
<b>42.5</b>	1181.8	1185.6	1197.0	1212.2	1231.2	1250.2	1267.3	1278.7	1282.5	1278.7
<b>47.5</b>	877.8	879.7	891.1	908.2	929.1	951.9	969.0	984.2	993.7	993.7
<b>55.0</b>	522.5	526.3	535.8	549.1	564.3	583.3	600.4	615.6	625.1	630.8
<b>65.0</b>	256.5	258.4	262.2	267.9	277.4	286.9	296.4	305.9	313.5	319.2
<b>75.0</b>	115.9	117.8	119.7	121.6	125.4	129.2	133.0	136.8	140.6	142.5
<b>85.0</b>	28.5	28.5	28.5	28.5	28.5	30.4	30.4	30.4	32.3	32.3
<b>90.0</b>	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	5.7
<b>95.0</b>	62.7	62.7	62.7	62.7	62.7	64.6	64.6	64.6	66.5	66.5
<b>100.0</b>	153.9	153.9	155.8	155.8	157.7	161.5	163.4	165.3	169.1	171.0
<b>105.0</b>	277.4	277.4	277.4	279.3	283.1	286.9	288.8	292.6	296.4	300.2
<b>110.0</b>	418.0	418.0	419.9	423.7	425.6	431.3	435.1	440.8	444.6	446.5
<b>115.0</b>	587.1	587.1	589.0	590.9	594.7	598.5	602.3	606.1	613.7	630.8
<b>120.0</b>	769.5	769.5	771.4	775.2	780.9	790.4	805.6	824.6	849.3	870.2
<b>125.0</b>	1005.1	1007.0	1012.7	1022.2	1035.5	1050.7	1067.8	1084.9	1102.0	1115.3
<b>130.0</b>	1282.5	1284.4	1288.2	1293.9	1303.4	1314.8	1324.3	1335.7	1345.2	1352.8
<b>135.0</b>	1537.1	1537.1	1540.9	1544.7	1548.5	1554.2	1559.9	1565.6	1573.2	1578.9
<b>140.0</b>	1755.6	1755.6	1757.5	1759.4	1761.3	1765.1	1768.9	1772.7	1776.5	1780.3
<b>145.0</b>	1941.8	1941.8	1941.8	1943.7	1945.6	1947.5	1949.4	1951.3	1955.1	1957.0
<b>150.0</b>	2095.7	2097.6	2097.6	2097.6	2099.5	2099.5	2101.4	2103.3	2105.2	2107.1
<b>155.0</b>	2223.0	2223.0	2224.9	2224.9	2224.9	2226.8	2226.8	2228.7	2228.7	2230.6
<b>160.0</b>	2323.7	2323.7	2323.7	2323.7	2323.7	2323.7	2325.6	2325.6	2325.6	2325.6
<b>165.0</b>	2397.8	2397.8	2397.8	2397.8	2397.8	2397.8	2397.8	2397.8	2397.8	2397.8
<b>170.0</b>	2447.2	2447.2	2447.2	2447.2	2447.2	2447.2	2447.2	2447.2	2447.2	2447.2
<b>175.0</b>	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7
<b>180.0</b>	2483.3	2483.3	2483.3	2483.3	2483.3	2483.3	2483.3	2483.3	2483.3	2483.3

**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>	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7
<b>1.0</b>	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7
<b>3.0</b>	2511.8	2511.8	2511.8	2511.8	2511.8	2511.8	2511.8	2511.8	2509.9
<b>5.0</b>	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2
<b>7.0</b>	2492.8	2492.8	2492.8	2492.8	2492.8	2492.8	2492.8	2492.8	2492.8
<b>9.0</b>	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2473.8	2473.8
<b>11.0</b>	2454.8	2454.8	2454.8	2452.9	2452.9	2452.9	2452.9	2452.9	2452.9
<b>13.0</b>	2428.2	2428.2	2426.3	2426.3	2424.4	2424.4	2424.4	2422.5	2424.4
<b>15.0</b>	2395.9	2395.9	2394.0	2392.1	2390.2	2390.2	2388.3	2388.3	2388.3

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**CANDELA TABULATION - (Cont.)**

<b>17.0</b>	2357.9	2356.0	2354.1	2352.2	2350.3	2348.4	2346.5	2344.6	2344.6
<b>19.5</b>	2300.9	2299.0	2295.2	2291.4	2287.6	2285.7	2281.9	2281.9	2280.0
<b>22.5</b>	2217.3	2211.6	2207.8	2202.1	2196.4	2190.7	2186.9	2185.0	2183.1
<b>25.5</b>	2118.5	2110.9	2103.3	2093.8	2086.2	2078.6	2072.9	2069.1	2069.1
<b>29.0</b>	1979.8	1970.3	1958.9	1945.6	1934.2	1924.7	1915.2	1911.4	1909.5
<b>33.0</b>	1795.5	1780.3	1765.1	1748.0	1732.8	1719.5	1710.0	1702.4	1700.5
<b>37.5</b>	1556.1	1539.0	1520.0	1501.0	1482.0	1466.8	1455.4	1447.8	1444.0
<b>42.5</b>	1267.3	1252.1	1233.1	1214.1	1197.0	1181.8	1170.4	1162.8	1160.9
<b>47.5</b>	986.1	976.6	961.4	946.2	932.9	921.5	912.0	906.3	904.4
<b>55.0</b>	632.7	630.8	625.1	621.3	615.6	611.8	608.0	606.1	606.1
<b>65.0</b>	324.9	328.7	330.6	332.5	334.4	336.3	336.3	338.2	338.2
<b>75.0</b>	146.3	148.2	152.0	153.9	155.8	157.7	157.7	159.6	159.6
<b>85.0</b>	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
<b>90.0</b>	5.7	5.7	5.7	5.7	5.7	3.8	3.8	3.8	3.8
<b>95.0</b>	66.5	68.4	68.4	70.3	70.3	68.4	68.4	72.2	72.2
<b>100.0</b>	172.9	174.8	174.8	174.8	172.9	182.4	188.1	190.0	190.0
<b>105.0</b>	302.1	304.0	304.0	313.5	328.7	336.3	338.2	340.1	340.1
<b>110.0</b>	450.3	461.7	482.6	499.7	507.3	513.0	514.9	514.9	514.9
<b>115.0</b>	653.6	674.5	691.6	701.1	706.8	710.6	712.5	714.4	714.4
<b>120.0</b>	889.2	902.5	912.0	919.6	925.3	929.1	931.0	932.9	932.9
<b>125.0</b>	1126.7	1136.2	1143.8	1149.5	1153.3	1157.1	1160.9	1160.9	1162.8
<b>130.0</b>	1360.4	1368.0	1373.7	1379.4	1383.2	1385.1	1387.0	1388.9	1388.9
<b>135.0</b>	1582.7	1588.4	1594.1	1597.9	1599.8	1601.7	1603.6	1605.5	1605.5
<b>140.0</b>	1784.1	1787.9	1791.7	1793.6	1795.5	1797.4	1799.3	1799.3	1799.3
<b>145.0</b>	1960.8	1962.7	1964.6	1966.5	1966.5	1968.4	1968.4	1968.4	1968.4
<b>150.0</b>	2109.0	2110.9	2110.9	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8
<b>155.0</b>	2230.6	2230.6	2232.5	2232.5	2232.5	2232.5	2232.5	2232.5	2232.5
<b>160.0</b>	2325.6	2325.6	2325.6	2325.6	2325.6	2325.6	2325.6	2325.6	2325.6
<b>165.0</b>	2397.8	2397.8	2397.8	2397.8	2397.8	2397.8	2397.8	2397.8	2397.8
<b>170.0</b>	2447.2	2447.2	2447.2	2447.2	2447.2	2447.2	2447.2	2447.2	2447.2
<b>175.0</b>	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7
<b>180.0</b>	2483.3	2483.3	2483.3	2483.3	2483.3	2483.3	2483.3	2483.3	2483.3

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	869.63	N.A.	7.70
0-30	1782.32	N.A.	15.90
0-40	2672.57	N.A.	23.80
0-60	4068.45	N.A.	36.20
0-80	4728.8	N.A.	42.10
0-90	4831.71	N.A.	43.00
10-90	4638.6	N.A.	41.30
20-40	1802.95	N.A.	16.00
20-50	2705.97	N.A.	24.10
40-70	1825.16	N.A.	16.20
60-80	660.35	N.A.	5.90
70-80	231.07	N.A.	2.10
80-90	102.91	N.A.	0.90
90-110	410.43	N.A.	3.70
90-120	1056.17	N.A.	9.40
90-130	2039.39	N.A.	18.10
90-150	4471.79	N.A.	39.80
90-180	6410.06	N.A.	57.00
110-180	5999.62	N.A.	53.40
0-180	11241.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	193.11
10-20	676.52
20-30	912.69
30-40	890.26
40-50	903.02
50-60	492.86
60-70	429.29
70-80	231.07
80-90	102.91
90-100	84.15
100-110	326.29
110-120	645.74
120-130	983.22
130-140	1210.96
140-150	1221.44
150-160	1026.25
160-170	676.63
170-180	235.39

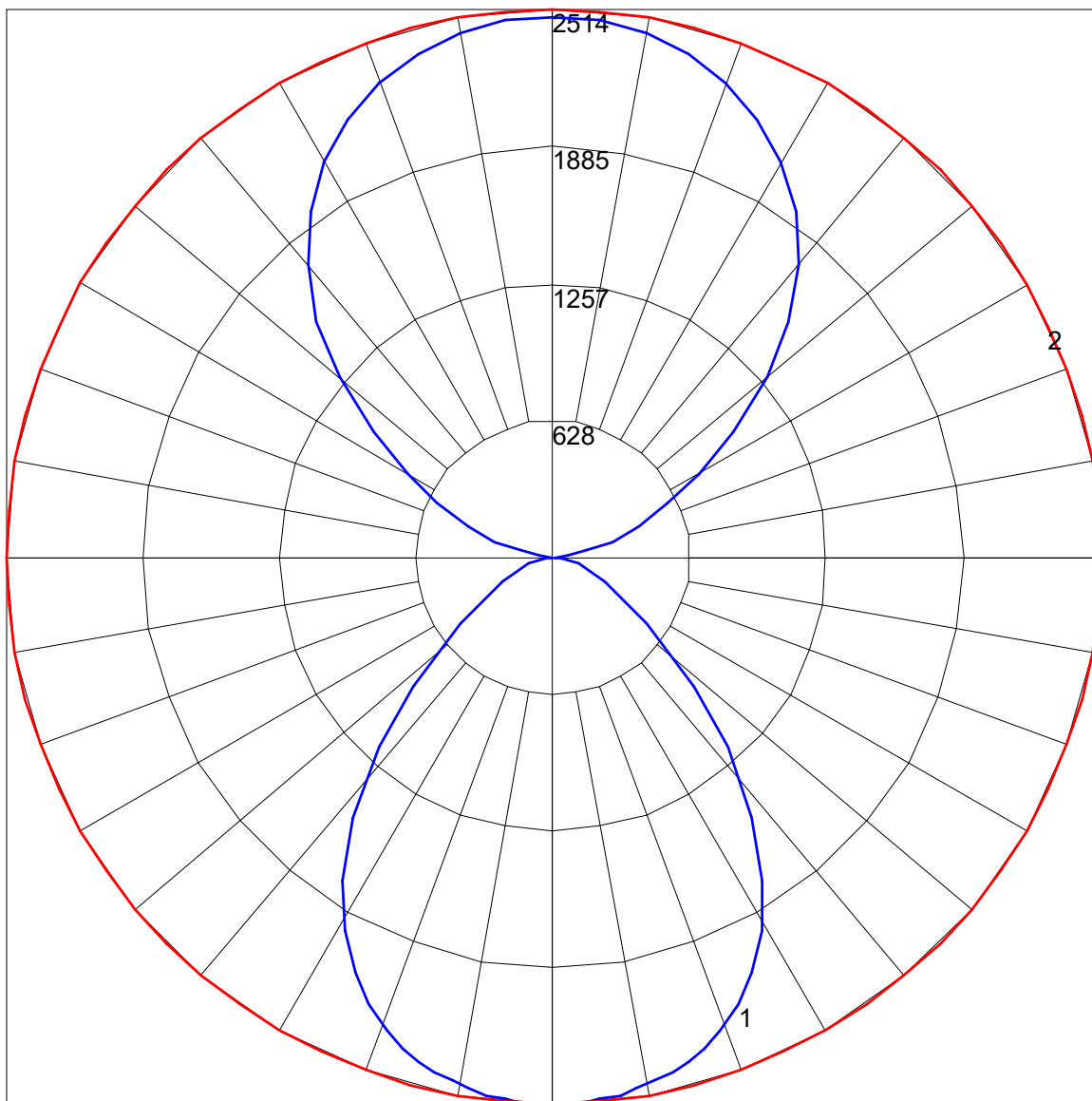
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	97	92	89	85	88	85	81	79	70	68	66	57	55	54	44	43	43	37
2	88	81	75	70	81	75	70	65	62	58	55	50	48	46	40	38	37	32
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	34	32	27
4	74	64	56	51	68	59	52	47	49	44	41	40	37	34	32	30	28	24
5	68	57	49	44	62	53	46	41	44	39	35	37	33	30	29	27	25	21
6	63	52	44	38	58	48	41	36	40	35	31	33	29	27	27	24	22	19
7	58	47	39	34	53	43	36	32	37	31	28	30	27	24	25	22	20	17
8	54	42	35	30	50	39	33	28	33	28	25	28	24	21	23	20	18	15
9	51	39	32	27	46	36	30	25	31	26	22	26	22	19	21	18	16	14
10	47	36	29	24	43	33	27	23	28	23	20	24	20	17	20	17	15	13

POLAR GRAPH



Maximum Candela = 2513.7 Located At Horizontal Angle = 0, Vertical Angle = 0

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)