

## IES Report

### ZipThree® | Ceiling Cable | 707 | Symmetric with EdgeGlow, up | 60° Symmetric, down | 80 CRI | HO

707-Z3-XX-4-48-CC-XX-XX-XX-X-0-Z-HO-35-U2S2-0-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	112	116	118	118
Total Lumens, 4' rail length (1219mm)	12034	12414	12667	12667
Lumens per foot (305mm)	3009	3104	3167	3167
Lumens per foot UP (305mm)	1890	1950	1990	1990
Lumens per foot DOWN (305mm)	1118	1154	1177	1177
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

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\_35\_U2S2.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911553 (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-SO-359-U2S2-AL

[LUMINAIRE] ZipThree LED Suspended, 48", 3500K, 80 CRI, zipper board, symmetric lens with edgeglow up/60°

[MORE] symmetric 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	12644
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
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	8437	13264	16986
55	4956	7989	11635
65	3622	5341	8670
75	2745	3777	6416
85	1535	2051	3969

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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>	2932.6	2932.6	2932.6	2932.6	2932.6	2932.6	2932.6	2932.6	2932.6	2932.6
<b>1.0</b>	2932.6	2932.6	2932.6	2932.6	2932.6	2932.6	2932.6	2932.6	2932.6	2932.6
<b>3.0</b>	2926.0	2926.0	2926.0	2926.0	2928.2	2928.2	2928.2	2928.2	2928.2	2928.2
<b>5.0</b>	2910.6	2910.6	2910.6	2910.6	2912.8	2912.8	2915.0	2915.0	2917.2	2917.2
<b>7.0</b>	2884.2	2884.2	2886.4	2886.4	2888.6	2890.8	2893.0	2895.2	2897.4	2899.6
<b>9.0</b>	2846.8	2846.8	2849.0	2851.2	2853.4	2855.6	2860.0	2864.4	2868.8	2871.0
<b>11.0</b>	2798.4	2798.4	2800.6	2805.0	2809.4	2813.8	2818.2	2824.8	2831.4	2838.0
<b>13.0</b>	2739.0	2739.0	2741.2	2745.6	2752.2	2758.8	2767.6	2776.4	2785.2	2794.0
<b>15.0</b>	2664.2	2666.4	2670.8	2677.4	2684.0	2695.0	2706.0	2719.2	2730.2	2743.4
<b>17.0</b>	2576.2	2578.4	2585.0	2593.8	2604.8	2618.0	2633.4	2648.8	2666.4	2681.8
<b>19.5</b>	2446.4	2450.8	2457.4	2470.6	2486.0	2505.8	2525.6	2547.6	2569.6	2591.6
<b>22.5</b>	2259.4	2261.6	2272.6	2290.2	2312.2	2338.6	2367.2	2398.0	2428.8	2457.4
<b>25.5</b>	2039.4	2043.8	2057.0	2079.0	2109.8	2145.0	2182.4	2222.0	2261.6	2299.0
<b>29.0</b>	1755.6	1760.0	1777.6	1806.2	1843.6	1887.6	1936.0	1986.6	2037.2	2085.6
<b>33.0</b>	1414.6	1421.2	1441.0	1474.0	1515.8	1568.6	1625.8	1687.4	1749.0	1806.2
<b>37.5</b>	1053.8	1062.6	1082.4	1115.4	1159.4	1212.2	1273.8	1339.8	1408.0	1471.8
<b>42.5</b>	732.6	737.0	754.6	783.2	820.6	869.0	921.8	983.4	1047.2	1108.8
<b>47.5</b>	503.8	508.2	521.4	541.2	569.8	607.2	649.0	697.4	750.2	800.8
<b>55.0</b>	303.6	305.8	312.4	323.4	338.8	360.8	385.0	413.6	444.4	477.4
<b>65.0</b>	171.6	171.6	173.8	180.4	184.8	193.6	204.6	215.6	231.0	244.2
<b>75.0</b>	88.0	88.0	90.2	92.4	94.6	96.8	101.2	105.6	110.0	114.4
<b>85.0</b>	24.2	24.2	24.2	24.2	24.2	24.2	26.4	26.4	26.4	28.6
<b>90.0</b>	46.2	46.2	46.2	44.0	41.8	39.6	37.4	35.2	30.8	28.6
<b>95.0</b>	107.8	107.8	107.8	105.6	105.6	103.4	101.2	99.0	96.8	92.4
<b>100.0</b>	193.6	193.6	193.6	195.8	195.8	195.8	198.0	200.2	202.4	206.8
<b>105.0</b>	330.0	332.2	334.4	336.6	341.0	347.6	354.2	360.8	367.4	374.0
<b>110.0</b>	521.4	521.4	523.6	528.0	534.6	541.2	550.0	556.6	565.4	576.4
<b>115.0</b>	750.2	752.4	754.6	759.0	765.6	774.4	785.4	798.6	809.6	820.6
<b>120.0</b>	1025.2	1027.4	1031.8	1036.2	1045.0	1053.8	1062.6	1073.6	1086.8	1100.0
<b>125.0</b>	1326.6	1326.6	1331.0	1335.4	1342.0	1350.8	1361.8	1375.0	1390.4	1403.6
<b>130.0</b>	1632.4	1632.4	1636.8	1641.2	1650.0	1661.0	1669.8	1680.8	1689.6	1698.4
<b>135.0</b>	1929.4	1929.4	1931.6	1936.0	1940.4	1944.8	1949.2	1955.8	1960.2	1966.8
<b>140.0</b>	2182.4	2182.4	2182.4	2184.6	2186.8	2191.2	2193.4	2195.6	2200.0	2202.2
<b>145.0</b>	2391.4	2391.4	2391.4	2393.6	2393.6	2395.8	2398.0	2398.0	2400.2	2402.4
<b>150.0</b>	2563.0	2563.0	2563.0	2565.2	2565.2	2565.2	2567.4	2567.4	2567.4	2569.6
<b>155.0</b>	2703.8	2703.8	2701.6	2701.6	2703.8	2703.8	2703.8	2703.8	2703.8	2706.0
<b>160.0</b>	2811.6	2813.8	2813.8	2813.8	2813.8	2813.8	2813.8	2813.8	2813.8	2816.0
<b>165.0</b>	2897.4	2897.4	2895.2	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4
<b>170.0</b>	2954.6	2954.6	2954.6	2954.6	2954.6	2954.6	2956.8	2956.8	2956.8	2956.8
<b>175.0</b>	2987.6	2987.6	2987.6	2987.6	2989.8	2989.8	2987.6	2987.6	2989.8	2987.6
<b>180.0</b>	2996.4	2996.4	2996.4	2996.4	2996.4	2996.4	2996.4	2996.4	2996.4	2996.4

**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>	2932.6	2932.6	2932.6	2932.6	2932.6	2932.6	2932.6	2932.6	2932.6
<b>1.0</b>	2932.6	2932.6	2932.6	2932.6	2932.6	2932.6	2932.6	2932.6	2932.6
<b>3.0</b>	2928.2	2930.4	2930.4	2930.4	2930.4	2930.4	2930.4	2930.4	2930.4
<b>5.0</b>	2919.4	2919.4	2921.6	2921.6	2921.6	2923.8	2923.8	2923.8	2923.8
<b>7.0</b>	2901.8	2904.0	2906.2	2908.4	2910.6	2910.6	2912.8	2912.8	2912.8
<b>9.0</b>	2877.6	2879.8	2884.2	2888.6	2890.8	2893.0	2895.2	2895.2	2895.2
<b>11.0</b>	2844.6	2849.0	2855.6	2860.0	2864.4	2868.8	2871.0	2871.0	2873.2
<b>13.0</b>	2805.0	2811.6	2820.4	2827.0	2831.4	2835.8	2840.2	2842.4	2842.4
<b>15.0</b>	2754.4	2765.4	2776.4	2785.2	2791.8	2798.4	2800.6	2802.8	2805.0

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**CANDELA TABULATION - (Cont.)**

<b>17.0</b>	2697.2	2710.4	2723.6	2734.6	2743.4	2750.0	2754.4	2756.6	2758.8
<b>19.5</b>	2611.4	2629.0	2644.4	2657.6	2668.6	2677.4	2684.0	2686.2	2686.2
<b>22.5</b>	2483.8	2508.0	2527.8	2545.4	2558.6	2567.4	2574.0	2580.6	2580.6
<b>25.5</b>	2334.2	2362.8	2387.0	2406.8	2422.2	2435.4	2442.0	2446.4	2448.6
<b>29.0</b>	2127.4	2164.8	2195.6	2219.8	2237.4	2248.4	2257.2	2261.6	2261.6
<b>33.0</b>	1859.0	1905.2	1940.4	1966.8	1984.4	1997.6	2004.2	2008.6	2008.6
<b>37.5</b>	1531.2	1579.6	1619.2	1645.6	1665.4	1676.4	1683.0	1685.2	1687.4
<b>42.5</b>	1168.2	1216.6	1254.0	1280.4	1298.0	1311.2	1317.8	1320.0	1322.2
<b>47.5</b>	851.4	893.2	926.2	952.6	972.4	985.6	994.4	998.8	1001.0
<b>55.0</b>	510.4	539.0	565.4	587.4	607.2	624.8	635.8	642.4	646.8
<b>65.0</b>	259.6	277.2	292.6	308.0	323.4	336.6	347.6	354.2	356.4
<b>75.0</b>	121.0	127.6	134.2	140.8	147.4	154.0	158.4	162.8	162.8
<b>85.0</b>	28.6	30.8	30.8	33.0	33.0	33.0	35.2	35.2	35.2
<b>90.0</b>	24.2	22.0	17.6	15.4	13.2	11.0	8.8	6.6	6.6
<b>95.0</b>	90.2	90.2	88.0	88.0	88.0	88.0	88.0	88.0	88.0
<b>100.0</b>	211.2	215.6	217.8	220.0	222.2	222.2	226.6	226.6	226.6
<b>105.0</b>	378.4	385.0	389.4	393.8	400.4	404.8	407.0	407.0	407.0
<b>110.0</b>	585.2	594.0	602.8	613.8	620.4	624.8	627.0	627.0	627.0
<b>115.0</b>	831.6	844.8	858.0	869.0	873.4	877.8	880.0	882.2	882.2
<b>120.0</b>	1117.6	1130.8	1139.6	1148.4	1155.0	1159.4	1161.6	1163.8	1163.8
<b>125.0</b>	1416.8	1425.6	1434.4	1438.8	1445.4	1449.8	1449.8	1452.0	1454.2
<b>130.0</b>	1705.0	1711.6	1718.2	1722.6	1727.0	1729.2	1731.4	1731.4	1731.4
<b>135.0</b>	1971.2	1975.6	1977.8	1982.2	1984.4	1986.6	1986.6	1988.8	1988.8
<b>140.0</b>	2204.4	2206.6	2208.8	2211.0	2211.0	2213.2	2213.2	2215.4	2215.4
<b>145.0</b>	2402.4	2404.6	2404.6	2406.8	2406.8	2409.0	2409.0	2409.0	2409.0
<b>150.0</b>	2569.6	2569.6	2571.8	2571.8	2571.8	2574.0	2574.0	2574.0	2574.0
<b>155.0</b>	2706.0	2706.0	2706.0	2708.2	2708.2	2708.2	2708.2	2708.2	2708.2
<b>160.0</b>	2816.0	2816.0	2816.0	2816.0	2816.0	2816.0	2816.0	2816.0	2818.2
<b>165.0</b>	2897.4	2897.4	2897.4	2899.6	2899.6	2899.6	2897.4	2897.4	2899.6
<b>170.0</b>	2954.6	2956.8	2956.8	2956.8	2956.8	2956.8	2956.8	2956.8	2956.8
<b>175.0</b>	2987.6	2987.6	2987.6	2989.8	2987.6	2989.8	2989.8	2989.8	2989.8
<b>180.0</b>	2996.4	2996.4	2996.4	2996.4	2996.4	2996.4	2996.4	2996.4	2996.4

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	997.66	N.A.	7.90
0-30	1987.84	N.A.	15.70
0-40	2870.48	N.A.	22.70
0-60	4067.29	N.A.	32.20
0-80	4605.09	N.A.	36.40
0-90	4700.88	N.A.	37.20
10-90	4476.18	N.A.	35.40
20-40	1872.82	N.A.	14.80
20-50	2668.64	N.A.	21.10
40-70	1542.28	N.A.	12.20
60-80	537.80	N.A.	4.30
70-80	192.33	N.A.	1.50
80-90	95.79	N.A.	0.80
90-110	519.23	N.A.	4.10
90-120	1339.09	N.A.	10.60
90-130	2586.64	N.A.	20.50
90-150	5594.9	N.A.	44.20
90-180	7943.58	N.A.	62.80
110-180	7424.35	N.A.	58.70
0-180	12644.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	224.71
10-20	772.96
20-30	990.18
30-40	882.64
40-50	795.82
50-60	400.99
60-70	345.46
70-80	192.33
80-90	95.79
90-100	116.51
100-110	402.72
110-120	819.86
120-130	1247.56
130-140	1508.79
140-150	1499.47
150-160	1246.44
160-170	818.04
170-180	284.20

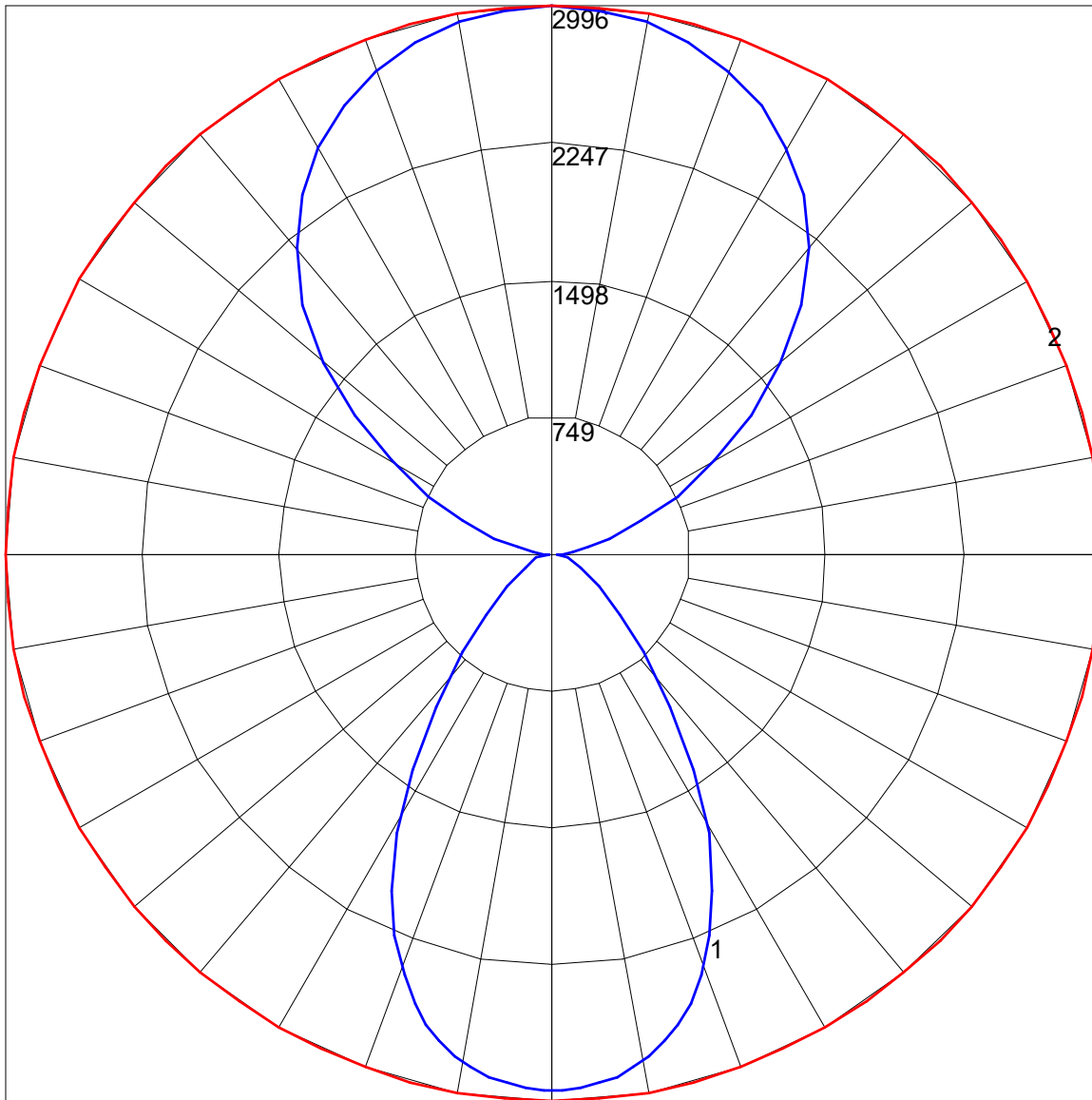
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	94	94	94	94	76	76	76	60	60	60	44	44	44	37
1	95	91	88	84	86	83	80	77	67	65	63	53	52	50	40	39	38	32
2	87	81	75	70	79	73	69	64	60	56	54	47	45	43	36	35	33	28
3	80	71	65	59	73	65	59	55	53	49	46	43	40	37	33	31	29	25
4	74	64	56	51	67	58	52	47	48	43	40	38	35	33	30	28	26	22
5	68	57	50	44	62	52	46	41	43	38	35	35	32	29	27	25	23	20
6	63	51	44	38	57	47	41	36	39	34	31	32	28	26	25	23	21	18
7	58	47	39	34	53	43	36	32	36	31	27	29	26	23	23	21	19	16
8	54	43	35	30	49	39	33	28	33	28	25	27	23	21	21	19	17	15
9	50	39	32	27	46	36	30	25	30	25	22	25	21	19	20	17	16	13
10	47	36	29	24	43	33	27	23	28	23	20	23	20	17	18	16	14	12

POLAR GRAPH



Maximum Candela = 2996.4 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.)