

## IES Report

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

707-Z3-XX-4-48-CC-XX-XX-XX-X-0-Z-HO-35-U1S2-0-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	110	114	116	116
Total Lumens, 4' rail length (1219mm)	11814	12187	12436	12436
Lumens per foot (305mm)	2954	3047	3109	3109
Lumens per foot UP (305mm)	1848	1907	1946	1946
Lumens per foot DOWN (305mm)	1105	1140	1164	1164
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\_U1S2.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911547 (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-U1S2-AL

[LUMINAIRE] ZipThree LED Suspended, 48", 3500K, 80 CRI, zipper board, symmetric lens up/60° 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	12414
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
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	8632	13096	16552
55	5064	7915	11477
65	3622	5341	8563
75	2745	3777	6330
85	1535	1894	3721

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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>	2908.4	2908.4	2908.4	2908.4	2908.4	2908.4	2908.4	2908.4	2908.4	2908.4
<b>1.0</b>	2908.4	2908.4	2906.2	2906.2	2908.4	2908.4	2908.4	2908.4	2908.4	2908.4
<b>3.0</b>	2899.6	2899.6	2901.8	2901.8	2901.8	2901.8	2901.8	2901.8	2901.8	2901.8
<b>5.0</b>	2884.2	2884.2	2886.4	2886.4	2886.4	2886.4	2888.6	2888.6	2888.6	2890.8
<b>7.0</b>	2860.0	2860.0	2860.0	2862.2	2862.2	2864.4	2866.6	2868.8	2871.0	2873.2
<b>9.0</b>	2822.6	2822.6	2827.0	2827.0	2829.2	2831.4	2835.8	2840.2	2842.4	2846.8
<b>11.0</b>	2774.2	2776.4	2778.6	2780.8	2783.0	2789.6	2794.0	2800.6	2807.2	2811.6
<b>13.0</b>	2714.8	2717.0	2719.2	2723.6	2728.0	2736.8	2743.4	2752.2	2758.8	2767.6
<b>15.0</b>	2642.2	2644.4	2648.8	2655.4	2664.2	2673.0	2681.8	2692.8	2706.0	2717.0
<b>17.0</b>	2558.6	2558.6	2565.2	2571.8	2582.8	2596.0	2609.2	2624.6	2640.0	2655.4
<b>19.5</b>	2428.8	2433.2	2439.8	2450.8	2466.2	2483.8	2503.6	2525.6	2545.4	2565.2
<b>22.5</b>	2246.2	2250.6	2259.4	2274.8	2296.8	2321.0	2347.4	2376.0	2402.4	2431.0
<b>25.5</b>	2035.0	2039.4	2052.6	2072.4	2101.0	2131.8	2167.0	2202.2	2239.6	2272.6
<b>29.0</b>	1757.8	1764.4	1779.8	1806.2	1839.2	1881.0	1925.0	1971.2	2017.4	2057.0
<b>33.0</b>	1425.6	1430.0	1449.8	1480.6	1522.4	1570.8	1623.6	1678.6	1733.6	1782.0
<b>37.5</b>	1069.2	1075.8	1095.6	1126.4	1168.2	1218.8	1276.0	1335.4	1394.8	1449.8
<b>42.5</b>	748.0	752.4	770.0	796.4	831.6	877.8	928.4	983.4	1040.6	1093.4
<b>47.5</b>	517.0	521.4	534.6	554.4	583.0	616.0	655.6	699.6	745.8	792.0
<b>55.0</b>	310.2	312.4	319.0	332.2	347.6	367.4	389.4	415.8	444.4	473.0
<b>65.0</b>	171.6	173.8	176.0	180.4	189.2	195.8	206.8	217.8	231.0	244.2
<b>75.0</b>	88.0	88.0	90.2	90.2	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	24.2	26.4	26.4	26.4
<b>90.0</b>	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
<b>95.0</b>	61.6	61.6	61.6	61.6	63.8	63.8	63.8	66.0	66.0	68.2
<b>100.0</b>	167.2	167.2	169.4	171.6	176.0	180.4	184.8	191.4	195.8	202.4
<b>105.0</b>	327.8	330.0	332.2	334.4	341.0	345.4	352.0	358.6	365.2	371.8
<b>110.0</b>	521.4	521.4	523.6	528.0	534.6	541.2	547.8	556.6	563.2	572.0
<b>115.0</b>	745.8	745.8	750.2	754.6	761.2	767.8	776.6	785.4	794.2	805.2
<b>120.0</b>	1003.2	1003.2	1007.6	1012.0	1018.6	1025.2	1036.2	1049.4	1062.6	1075.8
<b>125.0</b>	1287.0	1287.0	1291.4	1298.0	1306.8	1315.6	1326.6	1337.6	1350.8	1359.6
<b>130.0</b>	1586.2	1588.4	1590.6	1595.0	1601.6	1608.2	1617.0	1623.6	1632.4	1639.0
<b>135.0</b>	1867.8	1870.0	1870.0	1874.4	1878.8	1883.2	1887.6	1894.2	1898.6	1903.0
<b>140.0</b>	2118.6	2118.6	2120.8	2123.0	2125.2	2127.4	2131.8	2134.0	2138.4	2142.8
<b>145.0</b>	2332.0	2334.2	2334.2	2336.4	2336.4	2338.6	2343.0	2345.2	2347.4	2351.8
<b>150.0</b>	2514.6	2514.6	2514.6	2516.8	2516.8	2519.0	2521.2	2523.4	2525.6	2527.8
<b>155.0</b>	2664.2	2664.2	2664.2	2666.4	2666.4	2668.6	2668.6	2670.8	2673.0	2675.2
<b>160.0</b>	2785.2	2783.0	2785.2	2785.2	2785.2	2785.2	2787.4	2787.4	2789.6	2789.6
<b>165.0</b>	2873.2	2873.2	2873.2	2875.4	2875.4	2875.4	2875.4	2875.4	2875.4	2875.4
<b>170.0</b>	2934.8	2934.8	2934.8	2934.8	2934.8	2934.8	2934.8	2934.8	2934.8	2934.8
<b>175.0</b>	2970.0	2970.0	2970.0	2970.0	2970.0	2970.0	2970.0	2970.0	2970.0	2970.0
<b>180.0</b>	2978.8	2978.8	2978.8	2978.8	2978.8	2978.8	2978.8	2978.8	2978.8	2978.8

**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>	2908.4	2908.4	2908.4	2908.4	2908.4	2908.4	2908.4	2908.4	2908.4
<b>1.0</b>	2908.4	2906.2	2908.4	2906.2	2908.4	2906.2	2908.4	2906.2	2906.2
<b>3.0</b>	2904.0	2901.8	2904.0	2904.0	2904.0	2904.0	2904.0	2904.0	2904.0
<b>5.0</b>	2890.8	2893.0	2893.0	2895.2	2895.2	2895.2	2897.4	2897.4	2897.4
<b>7.0</b>	2875.4	2877.6	2877.6	2879.8	2882.0	2884.2	2884.2	2884.2	2884.2
<b>9.0</b>	2851.2	2853.4	2857.8	2860.0	2862.2	2864.4	2866.6	2866.6	2866.6
<b>11.0</b>	2818.2	2822.6	2829.2	2831.4	2835.8	2838.0	2840.2	2840.2	2840.2
<b>13.0</b>	2776.4	2783.0	2789.6	2796.2	2800.6	2805.0	2807.2	2809.4	2809.4
<b>15.0</b>	2728.0	2736.8	2745.6	2754.4	2761.0	2765.4	2767.6	2769.8	2769.8

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**CANDELA TABULATION - (Cont.)**

17.0	2668.6	2681.8	2690.6	2701.6	2710.4	2714.8	2719.2	2721.4	2721.4
19.5	2582.8	2598.2	2611.4	2624.6	2633.4	2640.0	2644.4	2646.6	2648.8
22.5	2455.2	2477.2	2494.8	2505.8	2516.8	2525.6	2530.0	2534.4	2536.6
25.5	2303.4	2329.8	2349.6	2367.2	2380.4	2389.2	2393.6	2398.0	2400.2
29.0	2096.6	2129.6	2153.8	2173.6	2189.0	2197.8	2204.4	2206.6	2206.6
33.0	1828.2	1865.6	1894.2	1918.4	1933.8	1942.6	1947.0	1951.4	1953.6
37.5	1502.6	1542.2	1575.2	1599.4	1614.8	1625.8	1632.4	1634.6	1636.8
42.5	1146.2	1185.8	1218.8	1245.2	1260.6	1273.8	1280.4	1284.8	1284.8
47.5	836.0	871.2	904.2	928.4	948.2	961.4	972.4	976.8	979.0
55.0	503.8	530.2	554.4	578.6	598.4	613.8	627.0	633.6	638.0
65.0	259.6	275.0	288.2	303.6	319.0	332.2	341.0	347.6	352.0
75.0	121.0	125.4	132.0	138.6	145.2	151.8	156.2	158.4	160.6
85.0	28.6	28.6	30.8	30.8	33.0	33.0	33.0	33.0	33.0
90.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
95.0	70.4	72.6	77.0	79.2	81.4	81.4	83.6	85.8	85.8
100.0	206.8	211.2	213.4	215.6	217.8	224.4	226.6	226.6	228.8
105.0	376.2	382.8	387.2	393.8	400.4	404.8	407.0	409.2	409.2
110.0	578.6	587.4	598.4	607.2	613.8	618.2	620.4	622.6	622.6
115.0	818.4	831.6	840.4	849.2	853.6	858.0	862.4	864.6	864.6
120.0	1089.0	1097.8	1106.6	1113.2	1119.8	1124.2	1128.6	1130.8	1133.0
125.0	1368.4	1377.2	1383.8	1390.4	1394.8	1401.4	1405.8	1408.0	1410.2
130.0	1645.6	1652.2	1658.8	1665.4	1672.0	1676.4	1678.6	1680.8	1683.0
135.0	1909.6	1914.0	1920.6	1925.0	1929.4	1933.8	1938.2	1938.2	1940.4
140.0	2147.2	2151.6	2156.0	2160.4	2164.8	2167.0	2169.2	2169.2	2169.2
145.0	2354.0	2358.4	2362.8	2365.0	2367.2	2369.4	2369.4	2371.6	2371.6
150.0	2532.2	2534.4	2536.6	2538.8	2538.8	2541.0	2541.0	2543.2	2543.2
155.0	2675.2	2677.4	2679.6	2679.6	2679.6	2681.8	2681.8	2681.8	2681.8
160.0	2791.8	2791.8	2791.8	2791.8	2791.8	2794.0	2794.0	2794.0	2794.0
165.0	2877.6	2877.6	2877.6	2877.6	2877.6	2877.6	2877.6	2877.6	2877.6
170.0	2937.0	2934.8	2934.8	2934.8	2937.0	2934.8	2937.0	2937.0	2937.0
175.0	2970.0	2970.0	2970.0	2970.0	2970.0	2970.0	2970.0	2970.0	2970.0
180.0	2978.8	2978.8	2978.8	2978.8	2978.8	2978.8	2978.8	2978.8	2978.8

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	987.96	N.A.	8.00
0-30	1966.67	N.A.	15.80
0-40	2837.5	N.A.	22.90
0-60	4021.86	N.A.	32.40
0-80	4557.08	N.A.	36.70
0-90	4645.59	N.A.	37.40
10-90	4422.92	N.A.	35.60
20-40	1849.54	N.A.	14.90
20-50	2635.71	N.A.	21.20
40-70	1528.4	N.A.	12.30
60-80	535.21	N.A.	4.30
70-80	191.17	N.A.	1.50
80-90	88.51	N.A.	0.70
90-110	493.00	N.A.	4.00
90-120	1298.71	N.A.	10.50
90-130	2508.89	N.A.	20.20
90-150	5442.69	N.A.	43.80
90-180	7768.05	N.A.	62.60
110-180	7275.04	N.A.	58.60
0-180	12413.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	222.67
10-20	765.30
20-30	978.71
30-40	870.84
40-50	786.17
50-60	398.19
60-70	344.04
70-80	191.17
80-90	88.51
90-100	94.40
100-110	398.61
110-120	805.70
120-130	1210.18
130-140	1464.97
140-150	1468.83
150-160	1231.34
160-170	811.65
170-180	282.37

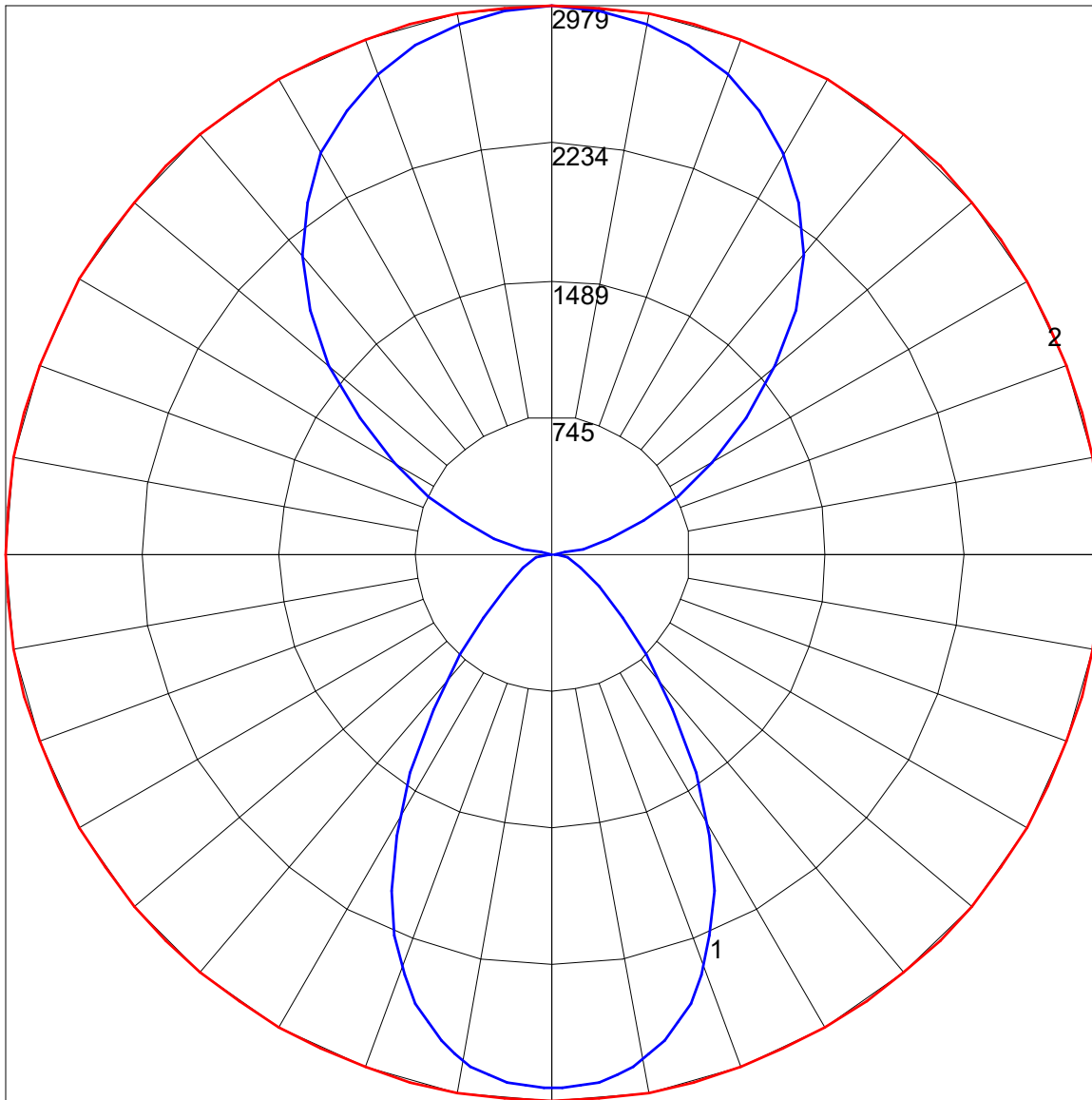
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	45	45	45	37
1	95	91	88	85	86	83	80	77	68	65	64	53	52	51	40	39	39	33
2	87	81	75	70	79	73	69	65	60	57	54	48	45	43	36	35	34	28
3	80	71	65	59	73	65	59	55	54	49	46	43	40	38	33	31	29	25
4	74	64	56	51	67	58	52	47	48	43	40	39	35	33	30	28	26	22
5	68	57	50	44	62	52	46	41	43	39	35	35	32	29	27	25	23	20
6	63	52	44	39	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	51	39	32	27	46	36	30	25	30	26	22	25	21	19	20	17	16	13
10	47	36	29	24	43	33	27	23	28	23	20	23	20	17	19	16	14	12

POLAR GRAPH



Maximum Candela = 2978.8 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.)