

## IES Report

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

707-Z3-XX-4-48-CC-XX-XX-XX-X-0-Z-HO-35-U1S7-0-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	116	119	122	122
Total Lumens, 4' rail length (1219mm)	12388	12780	13040	13040
Lumens per foot (305mm)	3097	3195	3260	3260
Lumens per foot UP (305mm)	1766	1822	1859	1859
Lumens per foot DOWN (305mm)	1331	1373	1401	1401
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\_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-35-U1S7-AL

[LUMINAIRE] ZipThree LED Suspended, 48", 3500K, 80 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	13017
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
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	16273	18276	17485
55	9877	12222	12625
65	6269	8084	9527
75	4187	5447	7284
85	2094	2683	4217

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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>	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6
<b>1.0</b>	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6
<b>3.0</b>	2908.4	2906.2	2906.2	2908.4	2908.4	2908.4	2908.4	2908.4	2908.4	2908.4
<b>5.0</b>	2899.6	2899.6	2899.6	2899.6	2899.6	2899.6	2899.6	2899.6	2899.6	2899.6
<b>7.0</b>	2886.4	2886.4	2886.4	2886.4	2886.4	2886.4	2886.4	2886.4	2886.4	2886.4
<b>9.0</b>	2866.6	2868.8	2868.8	2866.6	2868.8	2866.6	2866.6	2868.8	2866.6	2866.6
<b>11.0</b>	2842.4	2842.4	2842.4	2842.4	2842.4	2842.4	2842.4	2844.6	2842.4	2842.4
<b>13.0</b>	2811.6	2811.6	2811.6	2813.8	2813.8	2813.8	2813.8	2813.8	2813.8	2811.6
<b>15.0</b>	2776.4	2776.4	2776.4	2776.4	2776.4	2778.6	2778.6	2776.4	2776.4	2776.4
<b>17.0</b>	2732.4	2732.4	2732.4	2734.6	2734.6	2734.6	2734.6	2734.6	2734.6	2732.4
<b>19.5</b>	2666.4	2666.4	2668.6	2668.6	2670.8	2670.8	2673.0	2670.8	2670.8	2668.6
<b>22.5</b>	2569.6	2569.6	2571.8	2571.8	2576.2	2578.4	2578.4	2578.4	2576.2	2574.0
<b>25.5</b>	2450.8	2450.8	2455.2	2457.4	2461.8	2464.0	2466.2	2466.2	2464.0	2459.6
<b>29.0</b>	2281.4	2283.6	2288.0	2294.6	2301.2	2305.6	2310.0	2312.2	2307.8	2303.4
<b>33.0</b>	2048.2	2052.6	2059.2	2068.0	2079.0	2087.8	2096.6	2098.8	2096.6	2090.0
<b>37.5</b>	1742.4	1744.6	1753.4	1768.8	1784.2	1799.6	1812.8	1821.6	1821.6	1815.0
<b>42.5</b>	1368.4	1372.8	1386.0	1403.6	1425.6	1447.6	1467.4	1480.6	1485.0	1480.6
<b>47.5</b>	1016.4	1018.6	1031.8	1051.6	1075.8	1102.2	1122.0	1139.6	1150.6	1150.6
<b>55.0</b>	605.0	609.4	620.4	635.8	653.4	675.4	695.2	712.8	723.8	730.4
<b>65.0</b>	297.0	299.2	303.6	310.2	321.2	332.2	343.2	354.2	363.0	369.6
<b>75.0</b>	134.2	136.4	138.6	140.8	145.2	149.6	154.0	158.4	162.8	165.0
<b>85.0</b>	33.0	33.0	33.0	33.0	33.0	35.2	35.2	35.2	37.4	37.4
<b>90.0</b>	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	6.6
<b>95.0</b>	72.6	72.6	72.6	72.6	72.6	74.8	74.8	74.8	77.0	77.0
<b>100.0</b>	178.2	178.2	180.4	180.4	182.6	187.0	189.2	191.4	195.8	198.0
<b>105.0</b>	321.2	321.2	321.2	323.4	327.8	332.2	334.4	338.8	343.2	347.6
<b>110.0</b>	484.0	484.0	486.2	490.6	492.8	499.4	503.8	510.4	514.8	517.0
<b>115.0</b>	679.8	679.8	682.0	684.2	688.6	693.0	697.4	701.8	710.6	730.4
<b>120.0</b>	891.0	891.0	893.2	897.6	904.2	915.2	932.8	954.8	983.4	1007.6
<b>125.0</b>	1163.8	1166.0	1172.6	1183.6	1199.0	1216.6	1236.4	1256.2	1276.0	1291.4
<b>130.0</b>	1485.0	1487.2	1491.6	1498.2	1509.2	1522.4	1533.4	1546.6	1557.6	1566.4
<b>135.0</b>	1779.8	1779.8	1784.2	1788.6	1793.0	1799.6	1806.2	1812.8	1821.6	1828.2
<b>140.0</b>	2032.8	2032.8	2035.0	2037.2	2039.4	2043.8	2048.2	2052.6	2057.0	2061.4
<b>145.0</b>	2248.4	2248.4	2248.4	2250.6	2252.8	2255.0	2257.2	2259.4	2263.8	2266.0
<b>150.0</b>	2426.6	2428.8	2428.8	2428.8	2431.0	2431.0	2433.2	2435.4	2437.6	2439.8
<b>155.0</b>	2574.0	2574.0	2576.2	2576.2	2576.2	2578.4	2578.4	2580.6	2580.6	2582.8
<b>160.0</b>	2690.6	2690.6	2690.6	2690.6	2690.6	2690.6	2692.8	2692.8	2692.8	2692.8
<b>165.0</b>	2776.4	2776.4	2776.4	2776.4	2776.4	2776.4	2776.4	2776.4	2776.4	2776.4
<b>170.0</b>	2833.6	2833.6	2833.6	2833.6	2833.6	2833.6	2833.6	2833.6	2833.6	2833.6
<b>175.0</b>	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6
<b>180.0</b>	2875.4	2875.4	2875.4	2875.4	2875.4	2875.4	2875.4	2875.4	2875.4	2875.4

**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>	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6
<b>1.0</b>	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6
<b>3.0</b>	2908.4	2908.4	2908.4	2908.4	2908.4	2908.4	2908.4	2908.4	2906.2
<b>5.0</b>	2899.6	2899.6	2899.6	2899.6	2899.6	2899.6	2899.6	2899.6	2899.6
<b>7.0</b>	2886.4	2886.4	2886.4	2886.4	2886.4	2886.4	2886.4	2886.4	2886.4
<b>9.0</b>	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2864.4	2864.4
<b>11.0</b>	2842.4	2842.4	2842.4	2840.2	2840.2	2840.2	2840.2	2840.2	2840.2
<b>13.0</b>	2811.6	2811.6	2809.4	2809.4	2807.2	2807.2	2807.2	2805.0	2807.2
<b>15.0</b>	2774.2	2774.2	2772.0	2769.8	2767.6	2767.6	2765.4	2765.4	2765.4

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**CANDELA TABULATION - (Cont.)**

17.0	2730.2	2728.0	2725.8	2723.6	2721.4	2719.2	2717.0	2714.8	2714.8
19.5	2664.2	2662.0	2657.6	2653.2	2648.8	2646.6	2642.2	2642.2	2640.0
22.5	2567.4	2560.8	2556.4	2549.8	2543.2	2536.6	2532.2	2530.0	2527.8
25.5	2453.0	2444.2	2435.4	2424.4	2415.6	2406.8	2400.2	2395.8	2395.8
29.0	2292.4	2281.4	2268.2	2252.8	2239.6	2228.6	2217.6	2213.2	2211.0
33.0	2079.0	2061.4	2043.8	2024.0	2006.4	1991.0	1980.0	1971.2	1969.0
37.5	1801.8	1782.0	1760.0	1738.0	1716.0	1698.4	1685.2	1676.4	1672.0
42.5	1467.4	1449.8	1427.8	1405.8	1386.0	1368.4	1355.2	1346.4	1344.2
47.5	1141.8	1130.8	1113.2	1095.6	1080.2	1067.0	1056.0	1049.4	1047.2
55.0	732.6	730.4	723.8	719.4	712.8	708.4	704.0	701.8	701.8
65.0	376.2	380.6	382.8	385.0	387.2	389.4	389.4	391.6	391.6
75.0	169.4	171.6	176.0	178.2	180.4	182.6	182.6	184.8	184.8
85.0	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
90.0	6.6	6.6	6.6	6.6	6.6	4.4	4.4	4.4	4.4
95.0	77.0	79.2	79.2	81.4	81.4	79.2	79.2	83.6	83.6
100.0	200.2	202.4	202.4	202.4	200.2	211.2	217.8	220.0	220.0
105.0	349.8	352.0	352.0	363.0	380.6	389.4	391.6	393.8	393.8
110.0	521.4	534.6	558.8	578.6	587.4	594.0	596.2	596.2	596.2
115.0	756.8	781.0	800.8	811.8	818.4	822.8	825.0	827.2	827.2
120.0	1029.6	1045.0	1056.0	1064.8	1071.4	1075.8	1078.0	1080.2	1080.2
125.0	1304.6	1315.6	1324.4	1331.0	1335.4	1339.8	1344.2	1344.2	1346.4
130.0	1575.2	1584.0	1590.6	1597.2	1601.6	1603.8	1606.0	1608.2	1608.2
135.0	1832.6	1839.2	1845.8	1850.2	1852.4	1854.6	1856.8	1859.0	1859.0
140.0	2065.8	2070.2	2074.6	2076.8	2079.0	2081.2	2083.4	2083.4	2083.4
145.0	2270.4	2272.6	2274.8	2277.0	2277.0	2279.2	2279.2	2279.2	2279.2
150.0	2442.0	2444.2	2444.2	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4
155.0	2582.8	2582.8	2585.0	2585.0	2585.0	2585.0	2585.0	2585.0	2585.0
160.0	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8	2692.8
165.0	2776.4	2776.4	2776.4	2776.4	2776.4	2776.4	2776.4	2776.4	2776.4
170.0	2833.6	2833.6	2833.6	2833.6	2833.6	2833.6	2833.6	2833.6	2833.6
175.0	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6	2866.6
180.0	2875.4	2875.4	2875.4	2875.4	2875.4	2875.4	2875.4	2875.4	2875.4

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1006.94	N.A.	7.70
0-30	2063.74	N.A.	15.90
0-40	3094.56	N.A.	23.80
0-60	4710.84	N.A.	36.20
0-80	5475.46	N.A.	42.10
0-90	5594.61	N.A.	43.00
10-90	5371.01	N.A.	41.30
20-40	2087.62	N.A.	16.00
20-50	3133.22	N.A.	24.10
40-70	2113.35	N.A.	16.20
60-80	764.62	N.A.	5.90
70-80	267.55	N.A.	2.10
80-90	119.15	N.A.	0.90
90-110	475.24	N.A.	3.70
90-120	1222.94	N.A.	9.40
90-130	2361.4	N.A.	18.10
90-150	5177.87	N.A.	39.80
90-180	7422.17	N.A.	57.00
110-180	6946.93	N.A.	53.40
0-180	13016.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	223.60
10-20	783.34
20-30	1056.8
30-40	1030.82
40-50	1045.6
50-60	570.67
60-70	497.07
70-80	267.55
80-90	119.15
90-100	97.43
100-110	377.81
110-120	747.70
120-130	1138.47
130-140	1402.16
140-150	1414.3
150-160	1188.28
160-170	783.47
170-180	272.56

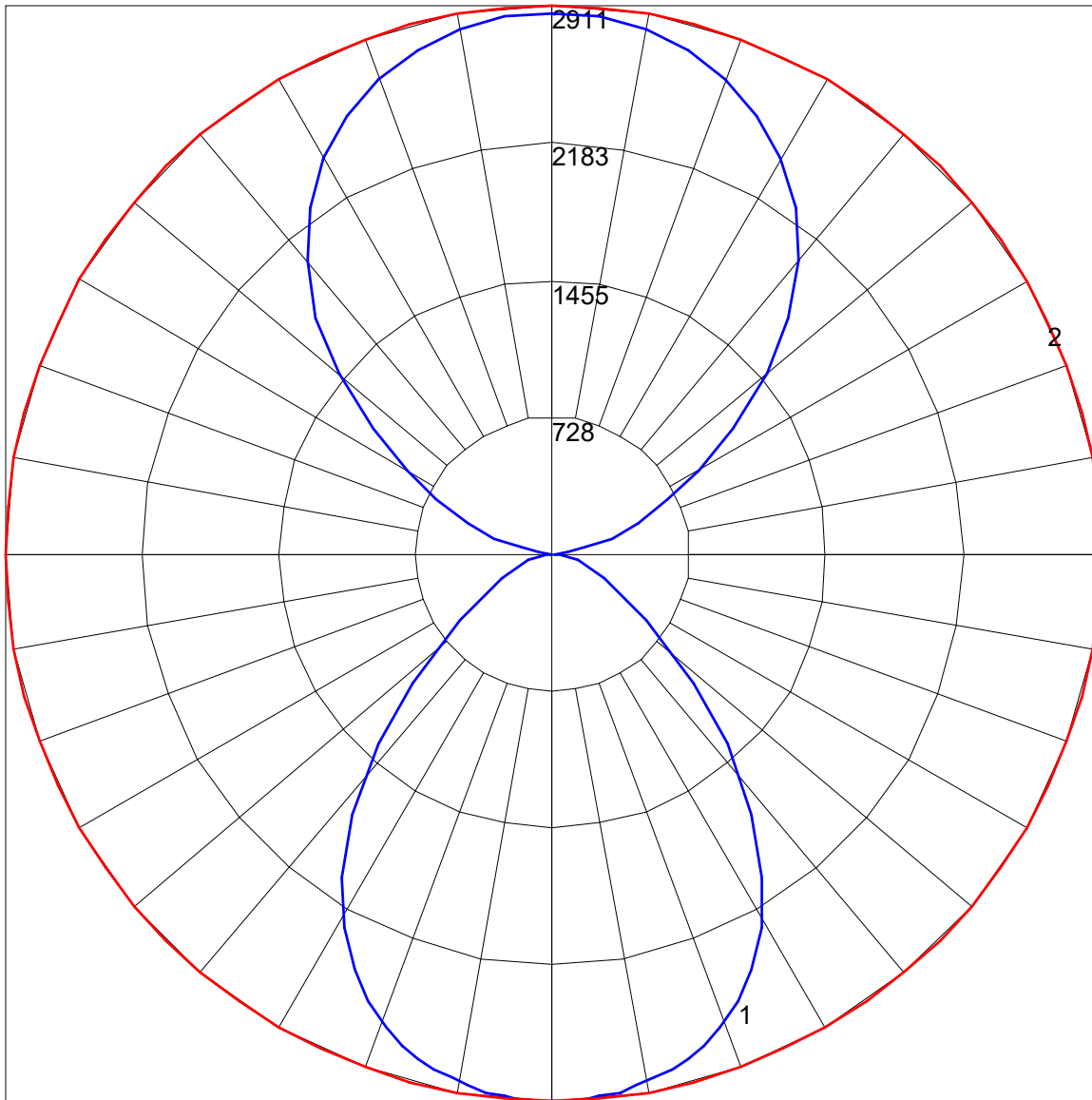
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 2910.6 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.)