

## IES Report

### ZipThree® | Ceiling Cable | 707 | Symmetric, up | 60° Symmetric, down | 90 CRI | HO

707-Z3-XX-4-48-CC-XX-XX-XX-X-0-Z-HO-359-U1S2-0-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	95	98	100	104
Total Lumens, 4' rail length (1219mm)	10185	10506	10721	10828
Lumens per foot (305mm)	2546	2627	2680	2707
Lumens per foot UP (305mm)	1593	1644	1677	1694
Lumens per foot DOWN (305mm)	953	983	1003	1013
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\_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-359-U1S2-AL

[LUMINAIRE] ZipThree LED Suspended, 48", 3500K, 90 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	10721
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
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	7455	11310	14295
55	4373	6836	9912
65	3128	4613	7396
75	2371	3262	5467
85	1326	1635	3214

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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>	2511.8	2511.8	2511.8	2511.8	2511.8	2511.8	2511.8	2511.8	2511.8	2511.8
<b>1.0</b>	2511.8	2511.8	2509.9	2509.9	2511.8	2511.8	2511.8	2511.8	2511.8	2511.8
<b>3.0</b>	2504.2	2504.2	2506.1	2506.1	2506.1	2506.1	2506.1	2506.1	2506.1	2506.1
<b>5.0</b>	2490.9	2490.9	2492.8	2492.8	2492.8	2492.8	2494.7	2494.7	2494.7	2496.6
<b>7.0</b>	2470.0	2470.0	2470.0	2471.9	2471.9	2473.8	2475.7	2477.6	2479.5	2481.4
<b>9.0</b>	2437.7	2437.7	2441.5	2441.5	2443.4	2445.3	2449.1	2452.9	2454.8	2458.6
<b>11.0</b>	2395.9	2397.8	2399.7	2401.6	2403.5	2409.2	2413.0	2418.7	2424.4	2428.2
<b>13.0</b>	2344.6	2346.5	2348.4	2352.2	2356.0	2363.6	2369.3	2376.9	2382.6	2390.2
<b>15.0</b>	2281.9	2283.8	2287.6	2293.3	2300.9	2308.5	2316.1	2325.6	2337.0	2346.5
<b>17.0</b>	2209.7	2209.7	2215.4	2221.1	2230.6	2242.0	2253.4	2266.7	2280.0	2293.3
<b>19.5</b>	2097.6	2101.4	2107.1	2116.6	2129.9	2145.1	2162.2	2181.2	2198.3	2215.4
<b>22.5</b>	1939.9	1943.7	1951.3	1964.6	1983.6	2004.5	2027.3	2052.0	2074.8	2099.5
<b>25.5</b>	1757.5	1761.3	1772.7	1789.8	1814.5	1841.1	1871.5	1901.9	1934.2	1962.7
<b>29.0</b>	1518.1	1523.8	1537.1	1559.9	1588.4	1624.5	1662.5	1702.4	1742.3	1776.5
<b>33.0</b>	1231.2	1235.0	1252.1	1278.7	1314.8	1356.6	1402.2	1449.7	1497.2	1539.0
<b>37.5</b>	923.4	929.1	946.2	972.8	1008.9	1052.6	1102.0	1153.3	1204.6	1252.1
<b>42.5</b>	646.0	649.8	665.0	687.8	718.2	758.1	801.8	849.3	898.7	944.3
<b>47.5</b>	446.5	450.3	461.7	478.8	503.5	532.0	566.2	604.2	644.1	684.0
<b>55.0</b>	267.9	269.8	275.5	286.9	300.2	317.3	336.3	359.1	383.8	408.5
<b>65.0</b>	148.2	150.1	152.0	155.8	163.4	169.1	178.6	188.1	199.5	210.9
<b>75.0</b>	76.0	76.0	77.9	77.9	81.7	83.6	87.4	91.2	95.0	98.8
<b>85.0</b>	20.9	20.9	20.9	20.9	20.9	20.9	20.9	22.8	22.8	22.8
<b>90.0</b>	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
<b>95.0</b>	53.2	53.2	53.2	53.2	55.1	55.1	55.1	57.0	57.0	58.9
<b>100.0</b>	144.4	144.4	146.3	148.2	152.0	155.8	159.6	165.3	169.1	174.8
<b>105.0</b>	283.1	285.0	286.9	288.8	294.5	298.3	304.0	309.7	315.4	321.1
<b>110.0</b>	450.3	450.3	452.2	456.0	461.7	467.4	473.1	480.7	486.4	494.0
<b>115.0</b>	644.1	644.1	647.9	651.7	657.4	663.1	670.7	678.3	685.9	695.4
<b>120.0</b>	866.4	866.4	870.2	874.0	879.7	885.4	894.9	906.3	917.7	929.1
<b>125.0</b>	1111.5	1111.5	1115.3	1121.0	1128.6	1136.2	1145.7	1155.2	1166.6	1174.2
<b>130.0</b>	1369.9	1371.8	1373.7	1377.5	1383.2	1388.9	1396.5	1402.2	1409.8	1415.5
<b>135.0</b>	1613.1	1615.0	1615.0	1618.8	1622.6	1626.4	1630.2	1635.9	1639.7	1643.5
<b>140.0</b>	1829.7	1829.7	1831.6	1833.5	1835.4	1837.3	1841.1	1843.0	1846.8	1850.6
<b>145.0</b>	2014.0	2015.9	2015.9	2017.8	2017.8	2019.7	2023.5	2025.4	2027.3	2031.1
<b>150.0</b>	2171.7	2171.7	2171.7	2173.6	2173.6	2175.5	2177.4	2179.3	2181.2	2183.1
<b>155.0</b>	2300.9	2300.9	2300.9	2302.8	2302.8	2304.7	2304.7	2306.6	2308.5	2310.4
<b>160.0</b>	2405.4	2403.5	2405.4	2405.4	2405.4	2405.4	2407.3	2407.3	2409.2	2409.2
<b>165.0</b>	2481.4	2481.4	2481.4	2483.3	2483.3	2483.3	2483.3	2483.3	2483.3	2483.3
<b>170.0</b>	2534.6	2534.6	2534.6	2534.6	2534.6	2534.6	2534.6	2534.6	2534.6	2534.6
<b>175.0</b>	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0
<b>180.0</b>	2572.6	2572.6	2572.6	2572.6	2572.6	2572.6	2572.6	2572.6	2572.6	2572.6

**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>	2511.8	2511.8	2511.8	2511.8	2511.8	2511.8	2511.8	2511.8	2511.8
<b>1.0</b>	2511.8	2509.9	2511.8	2509.9	2511.8	2509.9	2511.8	2509.9	2509.9
<b>3.0</b>	2508.0	2506.1	2508.0	2508.0	2508.0	2508.0	2508.0	2508.0	2508.0
<b>5.0</b>	2496.6	2498.5	2498.5	2500.4	2500.4	2500.4	2502.3	2502.3	2502.3
<b>7.0</b>	2483.3	2485.2	2485.2	2487.1	2489.0	2490.9	2490.9	2490.9	2490.9
<b>9.0</b>	2462.4	2464.3	2468.1	2470.0	2471.9	2473.8	2475.7	2475.7	2475.7
<b>11.0</b>	2433.9	2437.7	2443.4	2445.3	2449.1	2451.0	2452.9	2452.9	2452.9
<b>13.0</b>	2397.8	2403.5	2409.2	2414.9	2418.7	2422.5	2424.4	2426.3	2426.3
<b>15.0</b>	2356.0	2363.6	2371.2	2378.8	2384.5	2388.3	2390.2	2392.1	2392.1

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**CANDELA TABULATION - (Cont.)**

17.0	2304.7	2316.1	2323.7	2333.2	2340.8	2344.6	2348.4	2350.3	2350.3
19.5	2230.6	2243.9	2255.3	2266.7	2274.3	2280.0	2283.8	2285.7	2287.6
22.5	2120.4	2139.4	2154.6	2164.1	2173.6	2181.2	2185.0	2188.8	2190.7
25.5	1989.3	2012.1	2029.2	2044.4	2055.8	2063.4	2067.2	2071.0	2072.9
29.0	1810.7	1839.2	1860.1	1877.2	1890.5	1898.1	1903.8	1905.7	1905.7
33.0	1578.9	1611.2	1635.9	1656.8	1670.1	1677.7	1681.5	1685.3	1687.2
37.5	1297.7	1331.9	1360.4	1381.3	1394.6	1404.1	1409.8	1411.7	1413.6
42.5	989.9	1024.1	1052.6	1075.4	1088.7	1100.1	1105.8	1109.6	1109.6
47.5	722.0	752.4	780.9	801.8	818.9	830.3	839.8	843.6	845.5
55.0	435.1	457.9	478.8	499.7	516.8	530.1	541.5	547.2	551.0
65.0	224.2	237.5	248.9	262.2	275.5	286.9	294.5	300.2	304.0
75.0	104.5	108.3	114.0	119.7	125.4	131.1	134.9	136.8	138.7
85.0	24.7	24.7	26.6	26.6	28.5	28.5	28.5	28.5	28.5
90.0	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
95.0	60.8	62.7	66.5	68.4	70.3	70.3	72.2	74.1	74.1
100.0	178.6	182.4	184.3	186.2	188.1	193.8	195.7	195.7	197.6
105.0	324.9	330.6	334.4	340.1	345.8	349.6	351.5	353.4	353.4
110.0	499.7	507.3	516.8	524.4	530.1	533.9	535.8	537.7	537.7
115.0	706.8	718.2	725.8	733.4	737.2	741.0	744.8	746.7	746.7
120.0	940.5	948.1	955.7	961.4	967.1	970.9	974.7	976.6	978.5
125.0	1181.8	1189.4	1195.1	1200.8	1204.6	1210.3	1214.1	1216.0	1217.9
130.0	1421.2	1426.9	1432.6	1438.3	1444.0	1447.8	1449.7	1451.6	1453.5
135.0	1649.2	1653.0	1658.7	1662.5	1666.3	1670.1	1673.9	1673.9	1675.8
140.0	1854.4	1858.2	1862.0	1865.8	1869.6	1871.5	1873.4	1873.4	1873.4
145.0	2033.0	2036.8	2040.6	2042.5	2044.4	2046.3	2046.3	2048.2	2048.2
150.0	2186.9	2188.8	2190.7	2192.6	2192.6	2194.5	2194.5	2196.4	2196.4
155.0	2310.4	2312.3	2314.2	2314.2	2314.2	2316.1	2316.1	2316.1	2316.1
160.0	2411.1	2411.1	2411.1	2411.1	2411.1	2413.0	2413.0	2413.0	2413.0
165.0	2485.2	2485.2	2485.2	2485.2	2485.2	2485.2	2485.2	2485.2	2485.2
170.0	2536.5	2534.6	2534.6	2534.6	2536.5	2534.6	2536.5	2536.5	2536.5
175.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0	2565.0
180.0	2572.6	2572.6	2572.6	2572.6	2572.6	2572.6	2572.6	2572.6	2572.6

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	853.24	N.A.	8.00
0-30	1698.49	N.A.	15.80
0-40	2450.57	N.A.	22.90
0-60	3473.43	N.A.	32.40
0-80	3935.66	N.A.	36.70
0-90	4012.1	N.A.	37.40
10-90	3819.8	N.A.	35.60
20-40	1597.33	N.A.	14.90
20-50	2276.3	N.A.	21.20
40-70	1319.99	N.A.	12.30
60-80	462.23	N.A.	4.30
70-80	165.10	N.A.	1.50
80-90	76.44	N.A.	0.70
90-110	425.78	N.A.	4.00
90-120	1121.61	N.A.	10.50
90-130	2166.77	N.A.	20.20
90-150	4700.51	N.A.	43.80
90-180	6708.77	N.A.	62.60
110-180	6282.99	N.A.	58.60
0-180	10720.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	192.30
10-20	660.94
20-30	845.25
30-40	752.09
40-50	678.97
50-60	343.89
60-70	297.13
70-80	165.10
80-90	76.44
90-100	81.52
100-110	344.25
110-120	695.83
120-130	1045.16
130-140	1265.2
140-150	1268.54
150-160	1063.43
160-170	700.97
170-180	243.86

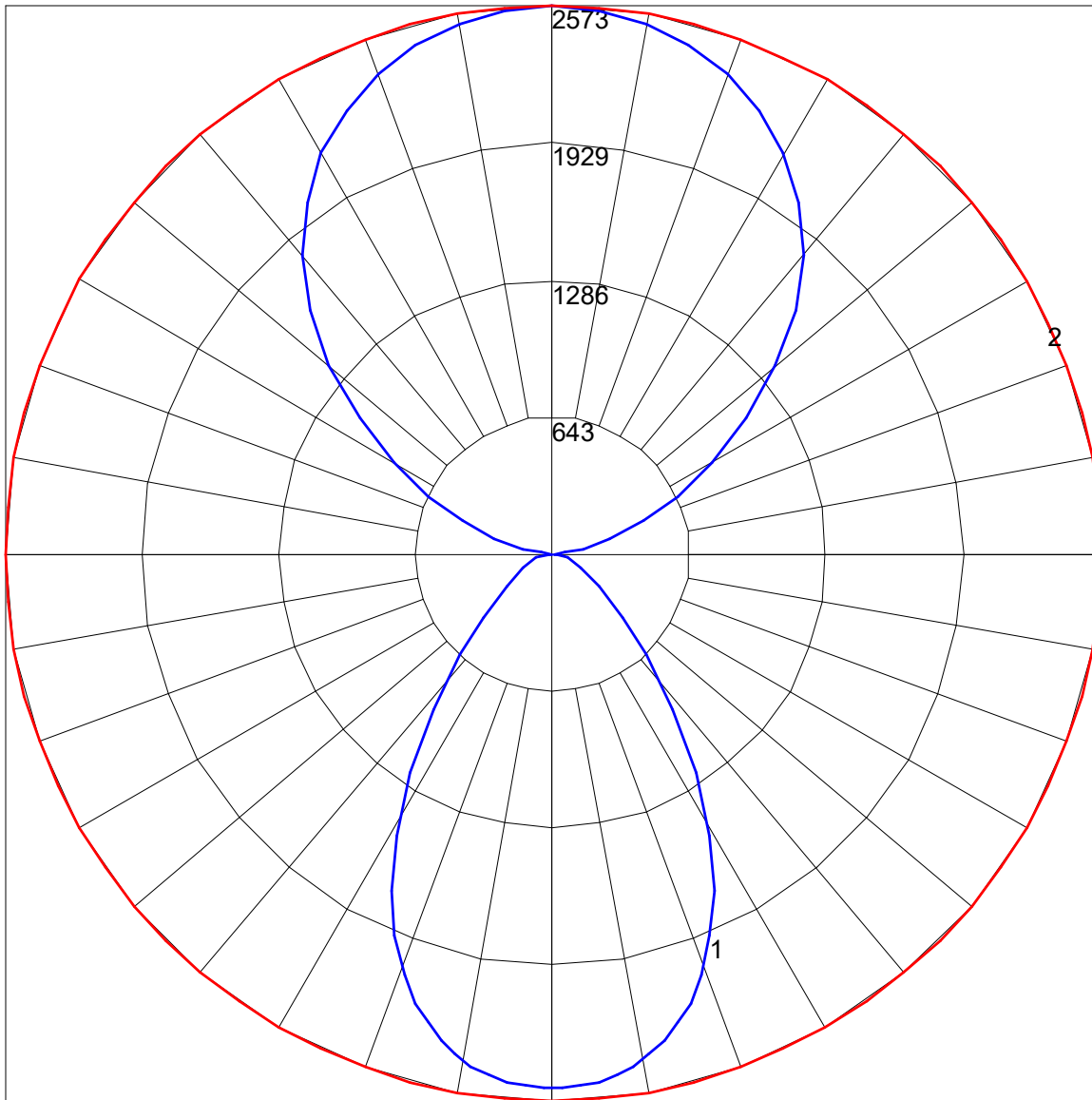
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2572.6 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.)