

**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	101	104	106	108
Total Lumens, 4' rail length (1219mm)	10722	11060	11286	11512
Lumens per foot (305mm)	2680	2765	2821	2878
Lumens per foot UP (305mm)	1653	1705	1740	1686
Lumens per foot DOWN (305mm)	1027	1060	1081	1048
Input Power (W), 4' rail length (1219mm)	107.2	107.2	107.2	107.2
Watts per foot (305mm)	26.8	26.8	26.8	26.8
CRI	85	85	85	85

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\_AL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L031805803R01 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB

[ISSUEDATE] 4/12/2018

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z3-CC-Z-HO-35-U1S2-AL

[LUMINAIRE] ZipThree Suspended, 48", 3500K, 80 CRI, zipper board,

[MORE] symmetric lens up/60° 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	11286
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	107.19
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)	0.25 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	6238	11170	21016
55	3914	6655	14597
65	3031	4543	9926
75	2339	3157	6685
85	1142	1620	3360

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>	2847.568	2847.568	2847.568	2847.568	2847.568	2847.568	2847.568	2847.568	2847.568	2847.568
<b>1.0</b>	2845.364	2845.364	2845.364	2845.364	2845.364	2845.364	2845.364	2845.364	2845.364	2845.364
<b>3.0</b>	2832.140	2832.140	2832.140	2834.344	2834.344	2834.344	2834.344	2836.548	2836.548	2836.548
<b>5.0</b>	2807.896	2807.896	2807.896	2810.100	2812.304	2812.304	2814.508	2816.712	2818.916	2821.120
<b>7.0</b>	2770.428	2770.428	2770.428	2772.632	2777.040	2779.244	2783.652	2788.060	2792.468	2796.876
<b>9.0</b>	2715.328	2717.532	2719.736	2721.940	2728.552	2732.960	2739.572	2748.388	2755.000	2763.816
<b>11.0</b>	2647.004	2649.208	2653.616	2658.024	2664.636	2675.656	2684.472	2697.696	2708.716	2719.736
<b>13.0</b>	2561.048	2563.252	2567.660	2576.476	2587.496	2600.720	2616.148	2631.576	2649.208	2666.840
<b>15.0</b>	2459.664	2461.868	2468.480	2479.500	2494.928	2512.560	2532.396	2556.640	2578.680	2602.924
<b>17.0</b>	2338.444	2342.852	2351.668	2364.892	2384.728	2408.972	2435.420	2466.276	2497.132	2527.988
<b>19.5</b>	2166.532	2170.940	2184.164	2201.796	2228.244	2259.100	2294.364	2334.036	2378.116	2417.788
<b>22.5</b>	1932.908	1937.316	1954.948	1979.192	2012.252	2051.924	2100.412	2151.104	2206.204	2263.508
<b>25.5</b>	1679.448	1686.060	1703.692	1732.344	1772.016	1822.708	1880.012	1943.928	2012.252	2082.780
<b>29.0</b>	1379.704	1384.112	1403.948	1437.008	1483.292	1538.392	1604.512	1681.652	1765.404	1849.156
<b>33.0</b>	1057.920	1064.532	1084.368	1115.224	1163.712	1221.016	1291.544	1370.888	1463.456	1558.228
<b>37.5</b>	758.176	764.788	782.420	811.072	850.744	903.640	967.556	1044.696	1135.060	1232.036
<b>42.5</b>	517.940	522.348	535.572	557.612	588.468	628.140	681.036	744.952	819.888	905.844
<b>47.5</b>	363.660	365.864	374.680	390.108	409.944	438.596	476.064	522.348	577.448	643.568
<b>55.0</b>	231.420	233.624	238.032	244.644	255.664	271.092	288.724	315.172	346.028	383.496
<b>65.0</b>	138.852	138.852	141.056	143.260	147.668	154.280	160.892	171.912	182.932	200.564
<b>75.0</b>	72.732	72.732	72.732	74.936	74.936	77.140	79.344	83.752	88.160	92.568
<b>85.0</b>	17.632	17.632	17.632	17.632	19.836	19.836	19.836	19.836	19.836	22.040
<b>90.0</b>	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408
<b>95.0</b>	66.120	66.120	66.120	66.120	66.120	66.120	66.120	68.324	68.324	68.324
<b>100.0</b>	167.504	167.504	167.504	169.708	169.708	171.912	174.116	174.116	176.320	178.524
<b>105.0</b>	295.336	295.336	297.540	297.540	301.948	304.152	308.560	310.764	315.172	321.784
<b>110.0</b>	454.024	454.024	456.228	460.636	462.840	469.452	473.860	480.472	487.084	493.696
<b>115.0</b>	643.568	645.772	647.976	652.384	656.792	663.404	670.016	678.832	687.648	696.464
<b>120.0</b>	863.968	863.968	868.376	872.784	879.396	886.008	894.824	905.844	916.864	927.884
<b>125.0</b>	1108.612	1108.612	1113.020	1117.428	1124.040	1132.856	1141.672	1154.896	1165.916	1179.140
<b>130.0</b>	1368.684	1370.888	1373.092	1379.704	1386.316	1395.132	1403.948	1417.172	1428.192	1441.416
<b>135.0</b>	1633.164	1635.368	1637.572	1641.980	1648.592	1657.408	1666.224	1675.040	1686.060	1694.876
<b>140.0</b>	1884.420	1884.420	1888.828	1891.032	1897.644	1902.052	1908.664	1917.480	1924.092	1930.704
<b>145.0</b>	2107.024	2107.024	2109.228	2111.432	2115.840	2118.044	2122.452	2126.860	2131.268	2135.676
<b>150.0</b>	2292.160	2292.160	2292.160	2294.364	2296.568	2298.772	2298.772	2300.976	2303.180	2305.384
<b>155.0</b>	2439.828	2439.828	2439.828	2439.828	2442.032	2442.032	2444.236	2444.236	2446.440	2448.644
<b>160.0</b>	2556.640	2556.640	2556.640	2556.640	2556.640	2558.844	2558.844	2561.048	2561.048	2563.252
<b>165.0</b>	2644.800	2644.800	2644.800	2644.800	2647.004	2647.004	2649.208	2649.208	2651.412	2653.616
<b>170.0</b>	2713.124	2713.124	2713.124	2715.328	2715.328	2715.328	2717.532	2717.532	2719.736	2721.940
<b>175.0</b>	2761.612	2761.612	2761.612	2761.612	2761.612	2761.612	2761.612	2761.612	2763.816	2763.816
<b>180.0</b>	2779.244	2779.244	2779.244	2779.244	2779.244	2779.244	2779.244	2779.244	2779.244	2779.244

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>	2847.568	2847.568	2847.568	2847.568	2847.568	2847.568	2847.568	2847.568	2847.568
<b>1.0</b>	2845.364	2845.364	2845.364	2845.364	2845.364	2845.364	2845.364	2845.364	2845.364
<b>3.0</b>	2838.752	2838.752	2840.956	2840.956	2840.956	2840.956	2840.956	2843.160	2840.956
<b>5.0</b>	2823.324	2825.528	2827.732	2829.936	2832.140	2832.140	2834.344	2834.344	2834.344
<b>7.0</b>	2801.284	2805.692	2810.100	2814.508	2816.712	2818.916	2821.120	2823.324	2823.324
<b>9.0</b>	2770.428	2779.244	2785.856	2792.468	2796.876	2801.284	2803.488	2805.692	2807.896
<b>11.0</b>	2732.960	2743.980	2755.000	2763.816	2772.632	2779.244	2783.652	2785.856	2785.856
<b>13.0</b>	2684.472	2699.900	2715.328	2728.552	2739.572	2750.592	2755.000	2759.408	2761.612
<b>15.0</b>	2627.168	2649.208	2671.248	2686.676	2702.104	2715.328	2724.144	2728.552	2730.756

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**CANDELA TABULATION - (Cont.)**

<b>17.0</b>	2558.844	2589.700	2616.148	2638.188	2658.024	2673.452	2684.472	2691.084	2693.288
<b>19.5</b>	2459.664	2499.336	2534.600	2565.456	2591.904	2611.740	2624.964	2633.780	2638.188
<b>22.5</b>	2318.608	2371.504	2419.992	2461.868	2494.928	2523.580	2541.212	2552.232	2556.640
<b>25.5</b>	2155.512	2221.632	2283.344	2336.240	2380.320	2415.584	2439.828	2453.052	2457.460
<b>29.0</b>	1937.316	2021.068	2096.004	2164.328	2219.428	2263.508	2294.364	2311.996	2318.608
<b>33.0</b>	1659.612	1758.792	1853.564	1937.316	2005.640	2060.740	2096.004	2118.044	2126.860
<b>37.5</b>	1340.032	1448.028	1551.616	1648.592	1727.936	1791.852	1835.932	1862.380	1871.196
<b>42.5</b>	1005.024	1108.612	1212.200	1311.380	1392.928	1463.456	1509.740	1538.392	1547.208
<b>47.5</b>	722.912	808.868	899.232	989.596	1066.736	1132.856	1179.140	1207.792	1216.608
<b>55.0</b>	431.984	484.880	542.184	603.896	658.996	709.688	747.156	771.400	780.216
<b>65.0</b>	218.196	242.440	268.888	295.336	323.988	350.436	372.476	385.700	392.312
<b>75.0</b>	99.180	107.996	116.812	127.832	138.852	147.668	156.484	163.096	163.096
<b>85.0</b>	22.040	22.040	24.244	24.244	26.448	26.448	28.652	28.652	28.652
<b>90.0</b>	2.204	2.204	2.204	2.204	2.204	0.000	0.000	0.000	0.000
<b>95.0</b>	68.324	68.324	68.324	68.324	68.324	68.324	66.120	66.120	66.120
<b>100.0</b>	180.728	182.932	185.136	187.340	187.340	187.340	187.340	187.340	187.340
<b>105.0</b>	326.192	328.396	335.008	337.212	339.416	341.620	343.824	343.824	343.824
<b>110.0</b>	502.512	509.124	515.736	520.144	524.552	528.960	531.164	531.164	533.368
<b>115.0</b>	707.484	716.300	725.116	731.728	738.340	742.748	744.952	747.156	747.156
<b>120.0</b>	938.904	949.924	960.944	967.556	974.168	980.780	985.188	987.392	989.596
<b>125.0</b>	1192.364	1203.384	1212.200	1221.016	1227.628	1234.240	1238.648	1243.056	1245.260
<b>130.0</b>	1452.436	1463.456	1472.272	1478.884	1485.496	1492.108	1496.516	1500.924	1503.128
<b>135.0</b>	1705.896	1712.508	1719.120	1725.732	1732.344	1736.752	1743.364	1749.976	1752.180
<b>140.0</b>	1937.316	1941.724	1946.132	1952.744	1957.152	1963.764	1970.376	1974.784	1976.988
<b>145.0</b>	2137.880	2142.288	2146.696	2151.104	2155.512	2162.124	2166.532	2170.940	2175.348
<b>150.0</b>	2309.792	2311.996	2314.200	2318.608	2325.220	2329.628	2336.240	2338.444	2340.648
<b>155.0</b>	2450.848	2453.052	2457.460	2461.868	2466.276	2470.684	2475.092	2477.296	2479.500
<b>160.0</b>	2565.456	2569.864	2572.068	2576.476	2578.680	2583.088	2585.292	2587.496	2589.700
<b>165.0</b>	2655.820	2658.024	2660.228	2664.636	2666.840	2669.044	2671.248	2673.452	2673.452
<b>170.0</b>	2721.940	2724.144	2726.348	2728.552	2728.552	2730.756	2732.960	2732.960	2732.960
<b>175.0</b>	2763.816	2763.816	2766.020	2766.020	2766.020	2766.020	2766.020	2766.020	2768.224
<b>180.0</b>	2779.244	2779.244	2779.244	2779.244	2779.244	2779.244	2779.244	2779.244	2779.244

**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	950.30	N.A.	8.40
0-30	1860.14	N.A.	16.50
0-40	2654.15	N.A.	23.50
0-60	3754.59	N.A.	33.30
0-80	4249.09	N.A.	37.60
0-90	4324.66	N.A.	38.30
10-90	4107.67	N.A.	36.40
20-40	1703.86	N.A.	15.10
20-50	2429.89	N.A.	21.50
40-70	1421.79	N.A.	12.60
60-80	494.50	N.A.	4.40
70-80	173.15	N.A.	1.50
80-90	75.56	N.A.	0.70
90-110	432.39	N.A.	3.80
90-120	1128.89	N.A.	10.00
90-130	2183.74	N.A.	19.30
90-150	4819.63	N.A.	42.70
90-180	6961.15	N.A.	61.70
110-180	6528.76	N.A.	57.80
0-180	11285.81	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	216.99
10-20	733.31
20-30	909.84
30-40	794.01
40-50	726.03
50-60	374.40
60-70	321.35
70-80	173.15
80-90	75.56
90-100	85.97
100-110	346.42
110-120	696.50
120-130	1054.85
130-140	1302.9
140-150	1332.99
150-160	1129.44
160-170	749.56
170-180	262.51

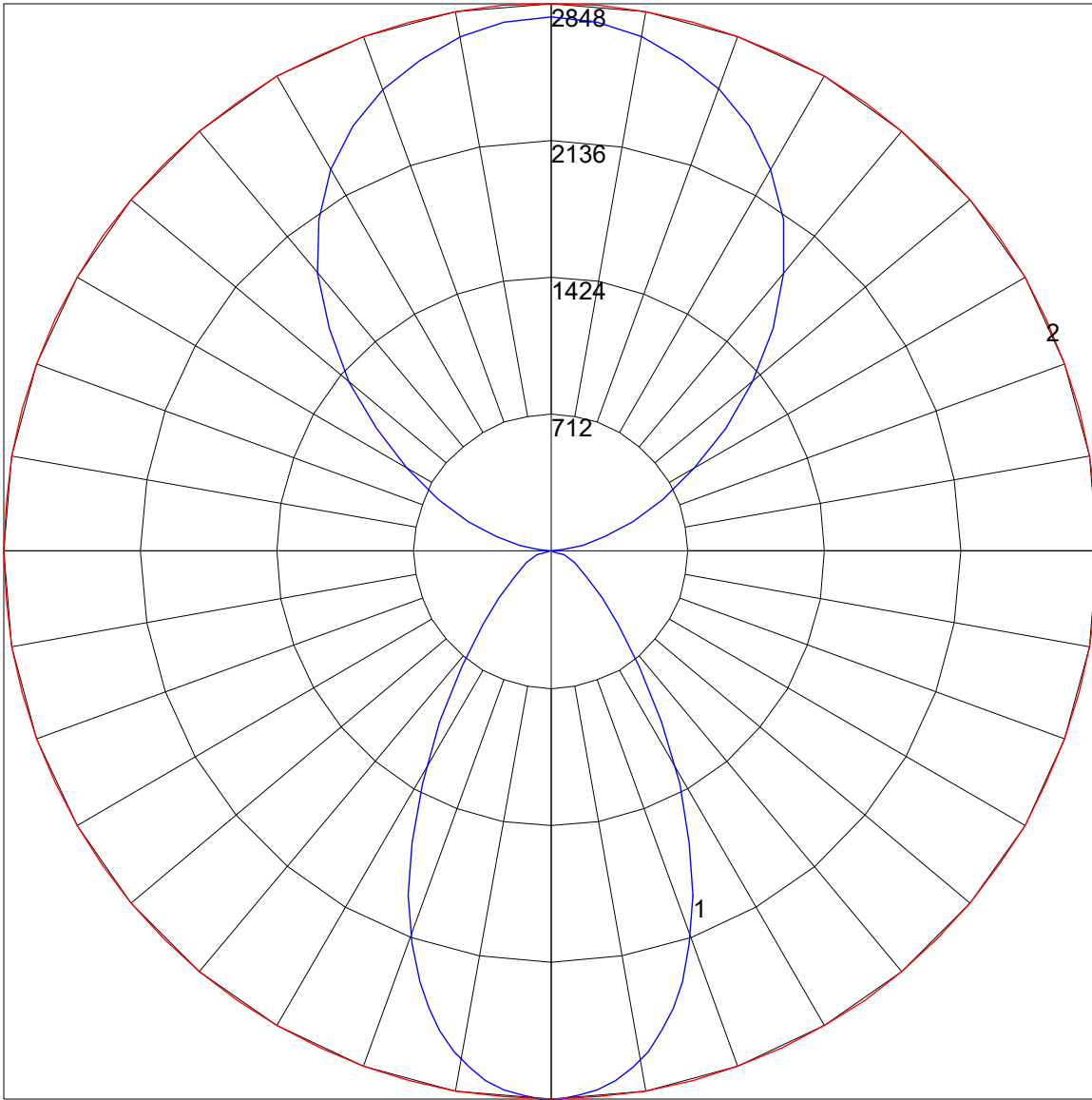
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	95	95	95	95	77	77	77	60	60	60	45	45	45	38	0
1	96	92	88	85	87	83	80	78	68	66	64	54	53	51	41	40	39	33	0
2	88	81	75	70	80	74	69	65	60	57	54	48	46	44	37	36	34	29	0
3	81	72	65	60	73	66	60	55	54	50	46	43	41	38	33	32	30	26	0
4	74	64	57	51	67	59	52	47	49	44	40	39	36	33	30	28	27	23	0
5	68	57	50	44	62	53	46	41	44	39	35	36	32	29	28	26	24	20	0
6	63	52	44	39	57	48	41	36	40	35	31	32	29	26	26	23	21	18	0
7	59	47	40	34	53	43	37	32	36	31	28	30	26	24	24	21	19	17	0
8	54	43	36	31	50	40	33	29	33	28	25	27	24	21	22	19	18	15	0
9	51	39	32	27	46	36	30	26	31	26	23	25	22	19	20	18	16	14	0
10	48	36	29	25	43	34	27	23	28	24	20	24	20	18	19	17	15	13	0

POLAR GRAPH



Maximum Candela = 2847.568 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)