

**IES Report**

**ZipThree® | Ceiling Cable | 707 | Symmetric with EdgeGlow, up | 40° Symmetric, down | 80 CRI | HO**

707-Z3-XX-4-48-CC-XX-XX-XX-X-0-Z-HO-35-U2S1-0-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	95	98	100	102
Total Lumens, 4' rail length (1219mm)	10139	10459	10673	10886
Lumens per foot (305mm)	2535	2615	2668	2722
Lumens per foot UP (305mm)	1676	1729	1764	1709
Lumens per foot DOWN (305mm)	859	886	904	876
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\_U2S1\_AL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L031805802R01 (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-U2S1-AL

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

[MORE] symmetric lens with edgeglow up/40° 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	10673
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
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	4928	8612	18016
55	3392	5469	12205
65	2694	3894	8086
75	2126	2781	5511
85	999	1296	2843

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>	2602.924	2602.924	2602.924	2602.924	2602.924	2602.924	2602.924	2602.924	2602.924	2602.924
<b>1.0</b>	2598.516	2598.516	2598.516	2598.516	2600.720	2600.720	2600.720	2600.720	2600.720	2600.720
<b>3.0</b>	2580.884	2580.884	2580.884	2583.088	2583.088	2585.292	2585.292	2587.496	2587.496	2589.700
<b>5.0</b>	2543.416	2543.416	2545.620	2547.824	2550.028	2552.232	2554.436	2558.844	2563.252	2567.660
<b>7.0</b>	2486.112	2488.316	2490.520	2492.724	2497.132	2503.744	2510.356	2516.968	2525.784	2532.396
<b>9.0</b>	2411.176	2413.380	2415.584	2422.196	2428.808	2437.624	2448.644	2461.868	2475.092	2488.316
<b>11.0</b>	2318.608	2320.812	2325.220	2334.036	2345.056	2358.280	2373.708	2391.340	2411.176	2428.808
<b>13.0</b>	2206.204	2208.408	2215.020	2228.244	2243.672	2261.304	2283.344	2307.588	2334.036	2360.484
<b>15.0</b>	2080.576	2082.780	2091.596	2107.024	2126.860	2151.104	2179.756	2212.816	2245.876	2281.140
<b>17.0</b>	1939.520	1943.928	1954.948	1972.580	1996.824	2027.680	2062.944	2102.616	2144.492	2188.572
<b>19.5</b>	1749.976	1754.384	1767.608	1789.648	1820.504	1857.972	1902.052	1952.744	2005.640	2060.740
<b>22.5</b>	1514.148	1518.556	1533.984	1560.432	1595.696	1639.776	1692.672	1752.180	1818.300	1886.624
<b>25.5</b>	1278.320	1284.932	1300.360	1329.012	1368.684	1417.172	1474.476	1545.004	1619.940	1699.284
<b>29.0</b>	1024.860	1029.268	1046.900	1075.552	1115.224	1165.916	1227.628	1300.360	1381.908	1470.068
<b>33.0</b>	778.012	784.624	800.052	824.296	861.764	908.048	967.556	1038.084	1119.632	1209.996
<b>37.5</b>	566.428	570.836	581.856	603.896	634.752	674.424	722.912	784.624	859.560	941.108
<b>42.5</b>	401.128	405.536	414.352	429.780	451.820	480.472	517.940	566.428	625.936	692.056
<b>47.5</b>	295.336	297.540	304.152	315.172	330.600	350.436	376.884	409.944	451.820	502.512
<b>55.0</b>	200.564	202.768	204.972	211.584	218.196	231.420	244.644	262.276	286.520	315.172
<b>65.0</b>	123.424	125.628	125.628	127.832	132.240	136.648	143.260	149.872	160.892	171.912
<b>75.0</b>	66.120	66.120	66.120	66.120	68.324	70.528	72.732	74.936	77.140	81.548
<b>85.0</b>	15.428	15.428	17.632	17.632	17.632	17.632	17.632	17.632	17.632	17.632
<b>90.0</b>	33.060	33.060	33.060	30.856	28.652	28.652	26.448	24.244	22.040	19.836
<b>95.0</b>	92.568	92.568	92.568	90.364	90.364	88.160	88.160	85.956	83.752	81.548
<b>100.0</b>	189.544	189.544	189.544	189.544	189.544	189.544	189.544	189.544	189.544	189.544
<b>105.0</b>	312.968	312.968	315.172	315.172	317.376	319.580	321.784	323.988	326.192	328.396
<b>110.0</b>	469.452	469.452	471.656	473.860	478.268	480.472	484.880	491.492	495.900	502.512
<b>115.0</b>	661.200	661.200	663.404	667.812	672.220	676.628	683.240	692.056	698.668	707.484
<b>120.0</b>	883.804	886.008	888.212	892.620	897.028	903.640	912.456	921.272	932.292	941.108
<b>125.0</b>	1135.060	1135.060	1139.468	1141.672	1148.284	1157.100	1165.916	1176.936	1187.956	1198.976
<b>130.0</b>	1401.744	1401.744	1403.948	1408.356	1414.968	1423.784	1432.600	1443.620	1454.640	1465.660
<b>135.0</b>	1666.224	1666.224	1670.632	1675.040	1679.448	1688.264	1694.876	1703.692	1714.712	1723.528
<b>140.0</b>	1915.276	1917.480	1919.684	1921.888	1926.296	1932.908	1937.316	1943.928	1950.540	1957.152
<b>145.0</b>	2135.676	2135.676	2135.676	2137.880	2142.288	2144.492	2148.900	2153.308	2157.716	2159.920
<b>150.0</b>	2316.404	2316.404	2316.404	2318.608	2318.608	2320.812	2323.016	2325.220	2325.220	2327.424
<b>155.0</b>	2459.664	2459.664	2459.664	2459.664	2459.664	2461.868	2461.868	2464.072	2464.072	2466.276
<b>160.0</b>	2572.068	2572.068	2572.068	2572.068	2572.068	2574.272	2574.272	2574.272	2576.476	2576.476
<b>165.0</b>	2655.820	2655.820	2655.820	2658.024	2658.024	2658.024	2658.024	2658.024	2658.024	2658.024
<b>170.0</b>	2717.532	2717.532	2717.532	2717.532	2717.532	2717.532	2717.532	2717.532	2717.532	2719.736
<b>175.0</b>	2755.000	2755.000	2755.000	2755.000	2755.000	2755.000	2755.000	2755.000	2755.000	2755.000
<b>180.0</b>	2768.224	2768.224	2768.224	2768.224	2768.224	2768.224	2768.224	2768.224	2768.224	2768.224

Vert. 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>	2602.924	2602.924	2602.924	2602.924	2602.924	2602.924	2602.924	2602.924	2602.924
<b>1.0</b>	2600.720	2600.720	2600.720	2600.720	2600.720	2600.720	2600.720	2600.720	2600.720
<b>3.0</b>	2591.904	2591.904	2594.108	2594.108	2596.312	2596.312	2596.312	2598.516	2598.516
<b>5.0</b>	2572.068	2574.272	2578.680	2580.884	2585.292	2587.496	2589.700	2589.700	2589.700
<b>7.0</b>	2541.212	2547.824	2556.640	2563.252	2567.660	2572.068	2576.476	2578.680	2578.680
<b>9.0</b>	2501.540	2512.560	2525.784	2536.804	2545.620	2552.232	2558.844	2561.048	2563.252
<b>11.0</b>	2448.644	2468.480	2486.112	2503.744	2516.968	2527.988	2536.804	2541.212	2541.212
<b>13.0</b>	2389.136	2413.380	2439.828	2461.868	2479.500	2494.928	2508.152	2514.764	2516.968
<b>15.0</b>	2316.404	2351.668	2382.524	2413.380	2437.624	2457.460	2472.888	2481.704	2486.112

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**CANDELA TABULATION - (Cont.)**

17.0	2234.856	2276.732	2318.608	2356.076	2386.932	2413.380	2433.216	2444.236	2448.644
19.5	2118.044	2173.144	2223.836	2274.528	2314.200	2347.260	2371.504	2386.932	2393.544
22.5	1959.356	2029.884	2096.004	2157.716	2210.612	2252.488	2285.548	2305.384	2311.996
25.5	1785.240	1868.992	1948.336	2023.272	2087.188	2142.288	2181.960	2204.000	2212.816
29.0	1564.840	1661.816	1756.588	1846.952	1924.092	1988.008	2036.496	2065.148	2073.964
33.0	1309.176	1417.172	1520.760	1622.144	1710.304	1785.240	1840.340	1875.604	1886.624
37.5	1038.084	1139.468	1245.260	1351.052	1443.620	1527.372	1589.084	1626.552	1639.776
42.5	773.604	861.764	954.332	1053.512	1143.876	1225.424	1284.932	1324.604	1335.624
47.5	564.224	632.548	707.484	786.828	863.968	934.496	987.392	1020.452	1033.676
55.0	350.436	392.312	436.392	487.084	535.572	581.856	619.324	641.364	652.384
65.0	187.340	204.972	224.808	246.848	266.684	288.724	306.356	317.376	319.580
75.0	88.160	92.568	101.384	107.996	114.608	123.424	127.832	132.240	134.444
85.0	19.836	19.836	19.836	22.040	22.040	22.040	22.040	24.244	24.244
90.0	15.428	13.224	11.020	8.816	6.612	6.612	4.408	2.204	2.204
95.0	79.344	77.140	74.936	72.732	70.528	68.324	68.324	66.120	66.120
100.0	189.544	189.544	189.544	189.544	187.340	187.340	187.340	185.136	185.136
105.0	332.804	335.008	337.212	339.416	339.416	341.620	341.620	341.620	341.620
110.0	506.920	513.532	517.940	522.348	526.756	528.960	528.960	528.960	531.164
115.0	716.300	722.912	731.728	738.340	742.748	747.156	749.360	749.360	749.360
120.0	952.128	963.148	971.964	980.780	987.392	991.800	994.004	998.412	998.412
125.0	1209.996	1221.016	1232.036	1240.852	1247.464	1251.872	1256.280	1260.688	1260.688
130.0	1476.680	1487.700	1496.516	1503.128	1509.740	1514.148	1518.556	1520.760	1522.964
135.0	1732.344	1741.160	1747.772	1752.180	1758.792	1763.200	1765.404	1769.812	1769.812
140.0	1963.764	1968.172	1972.580	1979.192	1981.396	1985.804	1988.008	1990.212	1990.212
145.0	2164.328	2166.532	2170.940	2173.144	2175.348	2177.552	2179.756	2181.960	2184.164
150.0	2329.628	2334.036	2336.240	2338.444	2338.444	2340.648	2342.852	2345.056	2345.056
155.0	2468.480	2470.684	2470.684	2472.888	2472.888	2475.092	2477.296	2477.296	2477.296
160.0	2576.476	2578.680	2578.680	2580.884	2580.884	2583.088	2583.088	2583.088	2583.088
165.0	2660.228	2660.228	2660.228	2662.432	2662.432	2664.636	2664.636	2664.636	2664.636
170.0	2719.736	2719.736	2719.736	2719.736	2721.940	2721.940	2721.940	2721.940	2721.940
175.0	2755.000	2755.000	2755.000	2755.000	2755.000	2757.204	2757.204	2757.204	2757.204
180.0	2768.224	2768.224	2768.224	2768.224	2768.224	2768.224	2768.224	2768.224	2768.224

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	840.95	N.A.	7.90
0-30	1601.42	N.A.	15.00
0-40	2243.14	N.A.	21.00
0-60	3131.28	N.A.	29.30
0-80	3547.49	N.A.	33.20
0-90	3617.18	N.A.	33.90
10-90	3420.31	N.A.	32.00
20-40	1402.2	N.A.	13.10
20-50	1984.99	N.A.	18.60
40-70	1156.53	N.A.	10.80
60-80	416.21	N.A.	3.90
70-80	147.82	N.A.	1.40
80-90	69.69	N.A.	0.70
90-110	455.74	N.A.	4.30
90-120	1162.55	N.A.	10.90
90-130	2235.98	N.A.	20.90
90-150	4907.14	N.A.	46.00
90-180	7055.76	N.A.	66.10
110-180	6600.02	N.A.	61.80
0-180	10672.94	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	196.87
10-20	644.07
20-30	760.48
30-40	641.72
40-50	582.79
50-60	305.34
60-70	268.40
70-80	147.82
80-90	69.69
90-100	100.32
100-110	355.42
110-120	706.81
120-130	1073.43
130-140	1323.78
140-150	1347.38
150-160	1136.06
160-170	750.68
170-180	261.88

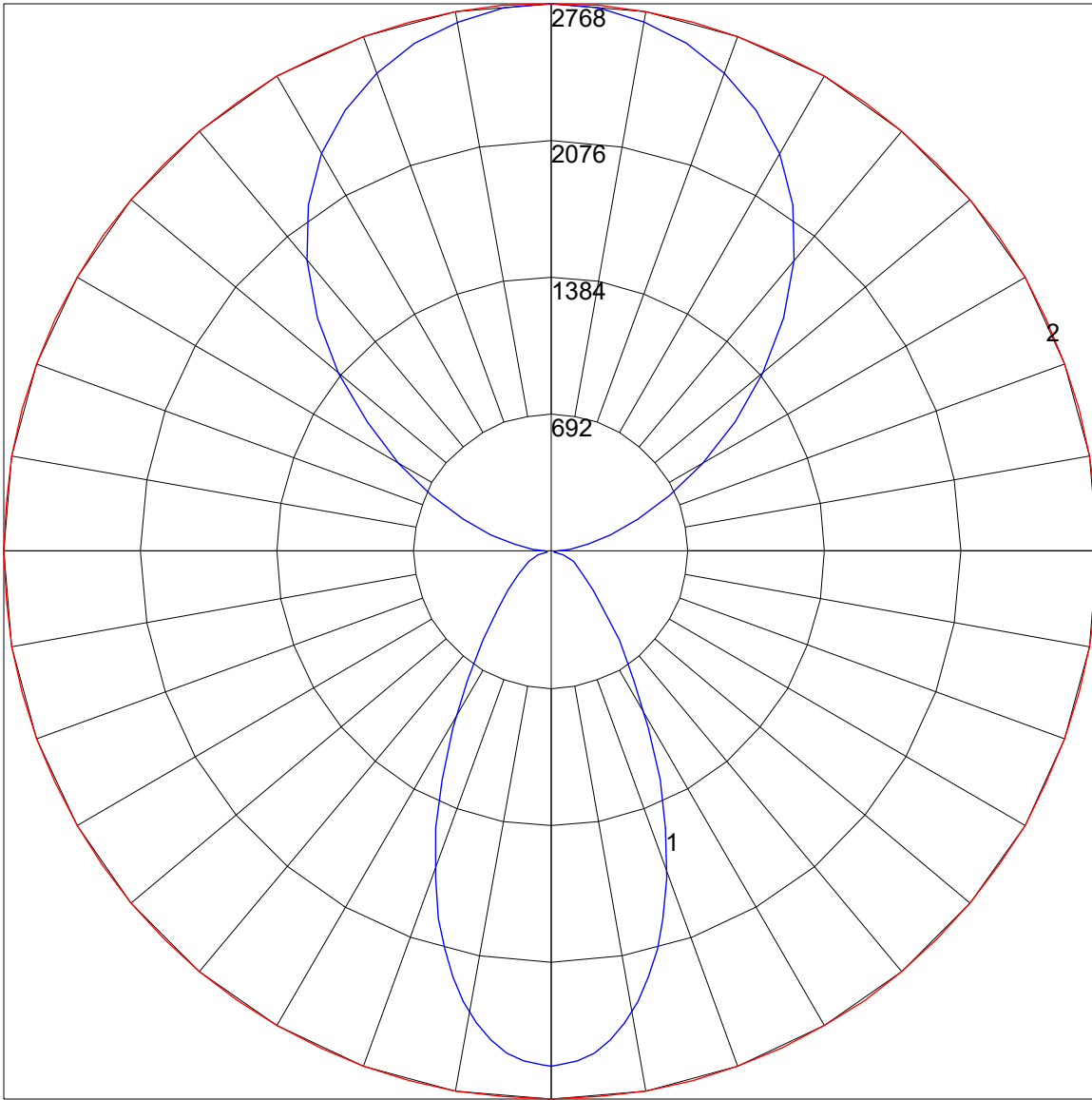
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34
1	95	91	87	84	85	82	79	76	66	64	62	51	50	48	37	36	36	29
2	87	80	74	69	78	72	68	64	58	55	52	46	43	41	34	32	31	26
3	80	71	64	59	72	64	59	54	52	48	45	41	38	36	30	29	27	23
4	73	63	56	50	66	57	51	46	47	42	39	37	34	31	28	26	24	20
5	67	57	49	44	61	52	45	40	42	38	34	34	30	28	25	23	22	18
6	62	51	44	38	56	47	40	35	38	34	30	31	27	25	23	21	20	16
7	58	46	39	34	52	42	36	31	35	30	27	28	25	22	22	19	18	15
8	54	42	35	30	49	39	32	28	32	27	24	26	23	20	20	18	16	14
9	50	39	32	27	45	36	29	25	30	25	22	24	21	18	19	16	15	13
10	47	36	29	24	43	33	27	23	27	23	20	22	19	17	17	15	14	12

POLAR GRAPH



Maximum Candela = 2768.224 Located At Horizontal Angle = 0, Vertical Angle = 180  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)