

**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-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	85	88	89	91
Total Lumens, 4' rail length (1219mm)	9051	9337	9527	9718
Lumens per foot (305mm)	2263	2334	2382	2429
Lumens per foot UP (305mm)	1544	1593	1625	1575
Lumens per foot DOWN (305mm)	719	741	756	733
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\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L031805809 (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-BL

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

[MORE] symmetric lens up/60° symmetric lens down, high output, black anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9527
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
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	3852	7293	12888
55	1752	3595	7010
65	914	1847	3736
75	496	1052	2168
85	286	486	1034

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>
0.0	2433.216	2433.216	2433.216	2433.216	2433.216	2433.216	2433.216	2433.216	2433.216	2433.216
1.0	2431.012	2431.012	2431.012	2431.012	2431.012	2431.012	2431.012	2431.012	2431.012	2431.012
3.0	2417.788	2417.788	2417.788	2417.788	2417.788	2417.788	2419.992	2419.992	2419.992	2422.196
5.0	2391.340	2391.340	2391.340	2391.340	2393.544	2395.748	2397.952	2400.156	2402.360	2404.564
7.0	2349.464	2349.464	2349.464	2351.668	2356.076	2358.280	2362.688	2367.096	2371.504	2375.912
9.0	2292.160	2292.160	2294.364	2298.772	2303.180	2309.792	2316.404	2323.016	2329.628	2338.444
11.0	2221.632	2221.632	2226.040	2230.448	2237.060	2245.876	2256.896	2267.916	2278.936	2289.956
13.0	2133.472	2135.676	2140.084	2146.696	2157.716	2170.940	2184.164	2199.592	2215.020	2232.652
15.0	2032.088	2034.292	2040.904	2049.720	2065.148	2080.576	2100.412	2120.248	2142.288	2164.328
17.0	1915.276	1917.480	1926.296	1939.520	1954.948	1976.988	2001.232	2027.680	2056.332	2084.984
19.5	1752.180	1756.588	1765.404	1783.036	1805.076	1831.524	1862.380	1897.644	1935.112	1972.580
22.5	1536.188	1540.596	1553.820	1573.656	1602.308	1635.368	1675.040	1719.120	1767.608	1816.096
25.5	1309.176	1313.584	1329.012	1353.256	1386.316	1425.988	1472.272	1525.168	1582.472	1639.776
29.0	1049.104	1053.512	1068.940	1095.388	1130.652	1174.732	1227.628	1287.136	1351.052	1417.172
33.0	778.012	784.624	797.848	822.092	857.356	901.436	954.332	1016.044	1084.368	1157.100
37.5	533.368	535.572	548.796	570.836	601.692	639.160	685.444	742.748	806.664	874.988
42.5	335.008	339.416	348.232	363.660	385.700	416.556	451.820	498.104	551.000	608.304
47.5	209.380	211.584	218.196	229.216	244.644	264.480	290.928	323.988	361.456	403.332
55.0	103.588	105.792	107.996	114.608	121.220	132.240	145.464	163.096	182.932	207.176
65.0	41.876	41.876	44.080	46.284	48.488	52.896	59.508	66.120	72.732	81.548
75.0	15.428	17.632	17.632	17.632	19.836	19.836	22.040	24.244	26.448	30.856
85.0	4.408	4.408	4.408	4.408	4.408	4.408	4.408	4.408	6.612	6.612
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	50.692	50.692	50.692	52.896	52.896	52.896	52.896	55.100	55.100	57.304
100.0	138.852	138.852	138.852	141.056	143.260	143.260	147.668	149.872	152.076	156.484
105.0	251.256	251.256	251.256	253.460	257.868	262.276	266.684	271.092	277.704	282.112
110.0	392.312	392.312	394.516	398.924	403.332	409.944	416.556	425.372	431.984	440.800
115.0	566.428	566.428	570.836	575.244	581.856	588.468	597.284	608.304	619.324	630.344
120.0	771.400	771.400	775.808	780.216	789.032	797.848	806.664	819.888	833.112	846.336
125.0	1002.820	1005.024	1007.228	1013.840	1022.656	1031.472	1042.492	1055.716	1071.144	1086.572
130.0	1254.076	1256.280	1258.484	1265.096	1273.912	1282.728	1295.952	1309.176	1322.400	1337.828
135.0	1511.944	1514.148	1516.352	1522.964	1529.576	1538.392	1549.412	1560.432	1573.656	1584.676
140.0	1758.792	1760.996	1763.200	1767.608	1774.220	1780.832	1789.648	1798.464	1807.280	1816.096
145.0	1981.396	1981.396	1983.600	1985.804	1990.212	1994.620	2001.232	2007.844	2012.252	2018.864
150.0	2168.736	2168.736	2168.736	2170.940	2173.144	2177.552	2179.756	2184.164	2186.368	2190.776
155.0	2316.404	2316.404	2318.608	2318.608	2320.812	2323.016	2325.220	2327.424	2329.628	2331.832
160.0	2435.420	2435.420	2435.420	2435.420	2437.624	2437.624	2439.828	2439.828	2442.032	2444.236
165.0	2525.784	2525.784	2525.784	2525.784	2525.784	2527.988	2527.988	2530.192	2530.192	2532.396
170.0	2589.700	2589.700	2591.904	2591.904	2591.904	2591.904	2594.108	2594.108	2594.108	2596.312
175.0	2631.576	2631.576	2631.576	2633.780	2633.780	2633.780	2633.780	2633.780	2633.780	2633.780
180.0	2647.004	2647.004	2647.004	2647.004	2647.004	2647.004	2647.004	2647.004	2647.004	2647.004

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>
0.0	2433.216	2433.216	2433.216	2433.216	2433.216	2433.216	2433.216	2433.216	2433.216
1.0	2431.012	2431.012	2431.012	2431.012	2431.012	2433.216	2433.216	2433.216	2433.216
3.0	2424.400	2424.400	2424.400	2426.604	2426.604	2426.604	2426.604	2426.604	2426.604
5.0	2406.768	2408.972	2411.176	2413.380	2415.584	2415.584	2417.788	2417.788	2417.788
7.0	2380.320	2384.728	2389.136	2393.544	2395.748	2397.952	2400.156	2402.360	2402.360
9.0	2345.056	2353.872	2360.484	2367.096	2371.504	2375.912	2380.320	2382.524	2382.524
11.0	2303.180	2314.200	2323.016	2334.036	2340.648	2347.260	2351.668	2353.872	2356.076
13.0	2248.080	2265.712	2278.936	2292.160	2303.180	2311.996	2318.608	2323.016	2323.016
15.0	2186.368	2206.204	2226.040	2243.672	2256.896	2270.120	2276.732	2283.344	2283.344

CANDELA TABULATION - (Cont.)

17.0	2113.636	2140.084	2164.328	2186.368	2204.000	2219.428	2230.448	2237.060	2239.264
19.5	2007.844	2043.108	2076.168	2102.616	2126.860	2146.696	2159.920	2168.736	2170.940
22.5	1862.380	1908.664	1948.336	1985.804	2016.660	2040.904	2058.536	2069.556	2071.760
25.5	1697.080	1754.384	1805.076	1851.360	1888.828	1917.480	1939.520	1950.540	1954.948
29.0	1487.700	1553.820	1615.532	1670.632	1714.712	1749.976	1774.220	1789.648	1794.056
33.0	1234.240	1306.972	1375.296	1437.008	1487.700	1527.372	1556.024	1571.452	1578.064
37.5	952.128	1024.860	1095.388	1159.304	1212.200	1254.076	1282.728	1300.360	1304.768
42.5	672.220	736.136	800.052	855.152	903.640	943.312	969.760	985.188	991.800
47.5	451.820	502.512	548.796	592.876	634.752	663.404	685.444	698.668	703.076
55.0	231.420	260.072	286.520	310.764	332.804	350.436	363.660	372.476	374.680
65.0	92.568	103.588	112.404	123.424	130.036	138.852	143.260	147.668	147.668
75.0	33.060	37.468	39.672	44.080	46.284	48.488	50.692	52.896	52.896
85.0	6.612	6.612	6.612	8.816	8.816	8.816	8.816	8.816	8.816
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	57.304	59.508	59.508	59.508	59.508	61.712	59.508	59.508	59.508
100.0	158.688	160.892	165.300	167.504	169.708	171.912	171.912	171.912	171.912
105.0	288.724	295.336	301.948	306.356	310.764	312.968	315.172	317.376	317.376
110.0	451.820	460.636	467.248	476.064	482.676	487.084	489.288	491.492	491.492
115.0	641.364	654.588	663.404	674.424	681.036	687.648	692.056	694.260	694.260
120.0	859.560	872.784	886.008	897.028	905.844	912.456	916.864	919.068	921.272
125.0	1099.796	1115.224	1128.448	1139.468	1146.080	1154.896	1159.304	1163.712	1165.916
130.0	1351.052	1364.276	1375.296	1386.316	1395.132	1401.744	1408.356	1412.764	1412.764
135.0	1597.900	1608.920	1617.736	1626.552	1633.164	1639.776	1646.388	1650.796	1650.796
140.0	1824.912	1833.728	1840.340	1846.952	1853.564	1857.972	1864.584	1866.788	1868.992
145.0	2025.476	2029.884	2036.496	2040.904	2045.312	2051.924	2056.332	2058.536	2060.740
150.0	2195.184	2197.388	2201.796	2206.204	2210.612	2215.020	2219.428	2221.632	2221.632
155.0	2334.036	2336.240	2340.648	2342.852	2347.260	2349.464	2353.872	2356.076	2356.076
160.0	2446.440	2448.644	2450.848	2455.256	2457.460	2459.664	2461.868	2464.072	2464.072
165.0	2534.600	2536.804	2536.804	2539.008	2541.212	2543.416	2545.620	2545.620	2545.620
170.0	2596.312	2598.516	2598.516	2600.720	2600.720	2600.720	2602.924	2602.924	2602.924
175.0	2633.780	2635.984	2635.984	2635.984	2635.984	2635.984	2635.984	2635.984	2635.984
180.0	2647.004	2647.004	2647.004	2647.004	2647.004	2647.004	2647.004	2647.004	2647.004

**IES INDOOR REPORT**

PHOTOMETRIC FILENAME : VODE\_707\_Z3\_CC\_HO\_35\_U1S2\_BL.IES

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	794.21	N.A.	8.30
0-30	1516.09	N.A.	15.90
0-40	2103.35	N.A.	22.10
0-60	2792.22	N.A.	29.30
0-80	3002.91	N.A.	31.50
0-90	3025.55	N.A.	31.80
10-90	2841.00	N.A.	29.80
20-40	1309.14	N.A.	13.70
20-50	1787.73	N.A.	18.80
40-70	837.15	N.A.	8.80
60-80	210.69	N.A.	2.20
70-80	62.41	N.A.	0.70
80-90	22.64	N.A.	0.20
90-110	380.37	N.A.	4.00
90-120	1011.3	N.A.	10.60
90-130	1983.88	N.A.	20.80
90-150	4462.28	N.A.	46.80
90-180	6501.52	N.A.	68.20
110-180	6121.14	N.A.	64.30
0-180	9527.07	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	184.55
10-20	609.66
20-30	721.88
30-40	587.26
40-50	478.59
50-60	210.28
60-70	148.28
70-80	62.41
80-90	22.64
90-100	73.00
100-110	307.38
110-120	630.93
120-130	972.58
130-140	1218.66
140-150	1259.74
150-160	1074.18
160-170	714.80
170-180	250.26

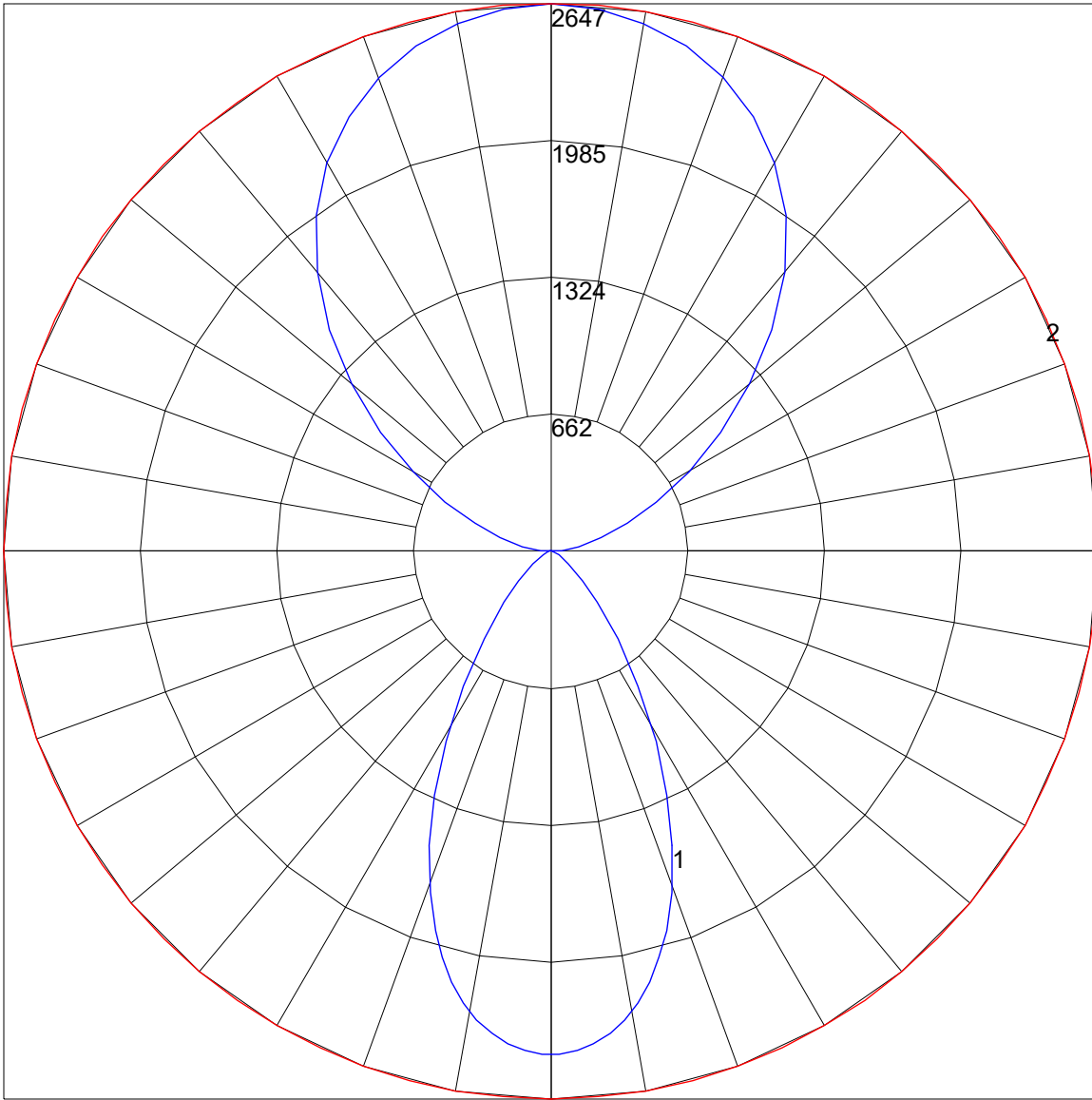
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	92	92	92	92	73	73	73	56	56	56	39	39	39	32
1	95	91	87	84	85	82	79	76	65	63	62	50	49	48	36	35	35	28
2	87	80	75	70	78	73	68	64	58	55	53	45	43	41	33	32	31	25
3	80	71	65	60	72	65	59	55	52	48	45	41	38	36	30	29	27	23
4	73	64	57	51	66	58	52	47	47	43	39	37	34	32	28	26	24	20
5	68	57	50	45	61	52	46	41	43	38	35	34	31	28	25	24	22	19
6	63	52	44	39	57	47	41	36	39	34	31	31	28	25	23	21	20	17
7	58	47	40	35	53	43	37	32	35	31	27	28	25	23	22	20	18	15
8	54	43	36	31	49	39	33	29	33	28	25	26	23	21	20	18	17	14
9	51	39	32	28	46	36	30	26	30	26	22	24	21	19	19	17	15	13
10	47	36	30	25	43	33	27	23	28	23	20	23	19	17	18	16	14	12

POLAR GRAPH



Maximum Candela = 2647.004 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.)