

IES Report

ZipThree® | 707 | Symmetric with EdgeGlow™, up | 85° Asymmetric , down | 90 CRI | HO

707-Z3-4-48-XX-XX-X-0-Z-HO-359-U2A1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	103	107	109	113
Total Lumens, 4' rail length (1219mm)	11072	11422	11655	11771
Lumens per foot (305mm)	2768	2855	2914	2943
Lumens per foot UP (305mm)	1647	1699	1734	1663
Lumens per foot DOWN (305mm)	1121	1156	1180	1132
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.



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE_707_Z3_HO_359_U2A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911545 / L121911542R01 (SOURCE REPORTS FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] VODE LIGHTING

[LUMCAT] 707-Z3-48-Z-HO-359-U2A1-AL

[LUMINAIRE] ZipThree LED, 48", 3500K, 90 CRI, zipper board, symmetric lens with edgeglow up/85° asymmetric 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	11655
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
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)	0.17 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	37715	37569	28896
55	32680	33214	25248
65	25677	26509	20431
75	17837	18686	15118
85	7980	8525	8847

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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>
0	2057.7	2057.7	2057.7	2057.7	2057.7	2057.7	2057.7	2057.7	2057.7	2057.7
5	2228.7	2228.7	2226.8	2223.0	2219.2	2213.5	2207.8	2200.2	2190.7	2181.2
10	2363.6	2361.7	2359.8	2354.1	2348.4	2337.0	2327.5	2314.2	2297.1	2281.9
15	2435.8	2433.9	2430.1	2424.4	2416.8	2405.4	2392.1	2376.9	2357.9	2335.1
20	2451.0	2449.1	2447.2	2441.5	2433.9	2420.6	2407.3	2390.2	2371.2	2348.4
25	2418.7	2418.7	2414.9	2409.2	2401.6	2390.2	2378.8	2361.7	2340.8	2318.0
30	2348.4	2346.5	2344.6	2338.9	2331.3	2319.9	2308.5	2291.4	2272.4	2251.5
35	2234.4	2234.4	2230.6	2226.8	2219.2	2209.7	2198.3	2185.0	2166.0	2145.1
40	2076.7	2074.8	2074.8	2071.0	2065.3	2057.7	2048.2	2034.9	2019.7	2000.7
45	1875.3	1875.3	1873.4	1871.5	1867.7	1860.1	1854.4	1844.9	1831.6	1816.4
50	1637.8	1637.8	1635.9	1635.9	1632.1	1628.3	1622.6	1616.9	1607.4	1594.1
55	1377.5	1377.5	1377.5	1375.6	1373.7	1371.8	1368.0	1362.3	1354.7	1347.1
60	1111.5	1111.5	1111.5	1109.6	1107.7	1107.7	1103.9	1100.1	1094.4	1086.8
65	855.0	855.0	855.0	855.0	853.1	851.2	849.3	847.4	841.7	836.0
70	625.1	625.1	625.1	625.1	623.2	623.2	621.3	617.5	613.7	609.9
75	418.0	418.0	418.0	418.0	416.1	416.1	414.2	410.4	408.5	402.8
80	241.3	241.3	241.3	241.3	241.3	239.4	237.5	235.6	233.7	229.9
85	102.6	102.6	102.6	102.6	100.7	98.8	98.8	96.9	95.0	93.1
90	38.0	38.0	36.1	36.1	34.2	32.3	30.4	26.6	24.7	22.8
95	112.1	112.1	110.2	110.2	108.3	106.4	104.5	102.6	100.7	96.9
100	220.4	220.4	220.4	220.4	218.5	218.5	216.6	214.7	214.7	212.8
105	361.0	361.0	361.0	361.0	361.0	361.0	361.0	361.0	361.0	361.0
110	530.1	530.1	532.0	532.0	532.0	533.9	533.9	535.8	537.7	537.7
115	727.7	727.7	729.6	729.6	731.5	733.4	735.3	737.2	739.1	742.9
120	950.0	950.0	950.0	951.9	953.8	955.7	959.5	963.3	967.1	969.0
125	1185.6	1185.6	1187.5	1189.4	1191.3	1195.1	1197.0	1200.8	1206.5	1210.3
130	1425.0	1425.0	1426.9	1428.8	1430.7	1434.5	1438.3	1442.1	1445.9	1451.6
135	1654.9	1654.9	1656.8	1658.7	1660.6	1664.4	1666.3	1670.1	1673.9	1679.6
140	1863.9	1863.9	1863.9	1867.7	1869.6	1871.5	1873.4	1877.2	1881.0	1884.8
145	2046.3	2048.2	2048.2	2050.1	2050.1	2052.0	2055.8	2057.7	2059.6	2063.4
150	2202.1	2202.1	2202.1	2202.1	2204.0	2205.9	2207.8	2207.8	2209.7	2211.6
155	2327.5	2327.5	2327.5	2327.5	2329.4	2329.4	2331.3	2333.2	2333.2	2335.1
160	2428.2	2428.2	2428.2	2428.2	2430.1	2430.1	2430.1	2430.1	2430.1	2432.0
165	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2
170	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2557.4
175	2584.0	2584.0	2585.9	2584.0	2584.0	2584.0	2585.9	2585.9	2584.0	2585.9
180	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6

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>	<u>95</u>
0	2057.7	2057.7	2057.7	2057.7	2057.7	2057.7	2057.7	2057.7	2057.7	2057.7
5	2169.8	2158.4	2145.1	2131.8	2116.6	2101.4	2086.2	2069.1	2052.0	2033.0
10	2261.0	2240.1	2215.4	2188.8	2160.3	2129.9	2097.6	2063.4	2025.4	1985.5
15	2310.4	2281.9	2249.6	2215.4	2175.5	2133.7	2086.2	2036.8	1979.8	1920.9
20	2318.0	2287.6	2251.5	2211.6	2164.1	2112.8	2052.0	1987.4	1915.2	1837.3
25	2289.5	2257.2	2219.2	2175.5	2122.3	2061.5	1995.0	1919.0	1831.6	1734.7
30	2224.9	2190.7	2152.7	2107.1	2052.0	1987.4	1913.3	1829.7	1727.1	1615.0
35	2120.4	2088.1	2050.1	2004.5	1951.3	1884.8	1806.9	1713.8	1603.6	1478.2
40	1976.0	1945.6	1913.3	1869.6	1816.4	1749.9	1670.1	1575.1	1457.3	1324.3
45	1795.5	1768.9	1736.6	1696.7	1647.3	1582.7	1504.8	1409.8	1292.0	1155.2
50	1577.0	1556.1	1527.6	1489.6	1445.9	1387.0	1311.0	1221.7	1105.8	978.5
55	1331.9	1314.8	1292.0	1259.7	1221.7	1168.5	1102.0	1018.4	917.7	799.9
60	1077.3	1062.1	1043.1	1018.4	984.2	940.5	883.5	813.2	725.8	625.1

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CANDELA TABULATION - (Cont.)

65	826.5	815.1	799.9	779.0	752.4	718.2	672.6	617.5	549.1	467.4
70	602.3	592.8	581.4	564.3	543.4	516.8	482.6	440.8	389.5	330.6
75	397.1	391.4	381.9	370.5	355.3	338.2	313.5	285.0	250.8	214.7
80	226.1	220.4	214.7	207.1	197.6	188.1	172.9	157.7	138.7	117.8
85	89.3	87.4	83.6	79.8	76.0	70.3	66.5	58.9	51.3	43.7
90	19.0	17.1	13.3	11.4	9.5	7.6	5.7	5.7	3.8	5.7
95	95.0	91.2	89.3	85.5	83.6	79.8	77.9	77.9	76.0	77.9
100	210.9	209.0	207.1	205.2	203.3	201.4	199.5	197.6	197.6	197.6
105	361.0	359.1	359.1	359.1	357.2	357.2	357.2	355.3	355.3	355.3
110	539.6	539.6	541.5	541.5	543.4	543.4	543.4	543.4	543.4	543.4
115	744.8	746.7	750.5	752.4	754.3	754.3	756.2	756.2	756.2	756.2
120	972.8	976.6	980.4	984.2	986.1	989.9	989.9	991.8	991.8	991.8
125	1214.1	1219.8	1223.6	1227.4	1231.2	1235.0	1236.9	1236.9	1236.9	1236.9
130	1455.4	1459.2	1464.9	1468.7	1472.5	1476.3	1476.3	1478.2	1478.2	1478.2
135	1683.4	1687.2	1691.0	1694.8	1698.6	1700.5	1702.4	1704.3	1702.4	1704.3
140	1888.6	1890.5	1894.3	1898.1	1900.0	1901.9	1903.8	1903.8	1903.8	1903.8
145	2065.3	2067.2	2071.0	2071.0	2072.9	2074.8	2074.8	2076.7	2076.7	2076.7
150	2213.5	2215.4	2217.3	2219.2	2219.2	2221.1	2221.1	2221.1	2221.1	2221.1
155	2335.1	2337.0	2337.0	2337.0	2338.9	2338.9	2338.9	2338.9	2338.9	2338.9
160	2432.0	2433.9	2433.9	2433.9	2433.9	2433.9	2433.9	2433.9	2435.8	2433.9
165	2506.1	2506.1	2506.1	2506.1	2506.1	2506.1	2506.1	2508.0	2506.1	2508.0
170	2557.4	2555.5	2557.4	2557.4	2557.4	2557.4	2557.4	2557.4	2555.5	2557.4
175	2585.9	2585.9	2585.9	2585.9	2585.9	2585.9	2585.9	2585.9	2585.9	2585.9
180	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	2057.7	2057.7	2057.7	2057.7	2057.7	2057.7	2057.7	2057.7	2057.7	2057.7
5	2015.9	1998.8	1979.8	1962.7	1947.5	1930.4	1915.2	1900.0	1886.7	1873.4
10	1947.5	1907.6	1865.8	1825.9	1786.0	1748.0	1711.9	1673.9	1641.6	1611.2
15	1860.1	1797.4	1730.9	1664.4	1601.7	1539.0	1480.1	1421.2	1369.9	1322.4
20	1751.8	1666.3	1577.0	1487.7	1396.5	1312.9	1235.0	1160.9	1098.2	1039.3
25	1632.1	1521.9	1407.9	1299.6	1185.6	1088.7	999.4	917.7	849.3	790.4
30	1495.3	1364.2	1233.1	1107.7	984.2	879.7	788.5	708.7	642.2	587.1
35	1343.3	1198.9	1054.5	921.5	796.1	695.4	609.9	537.7	478.8	435.1
40	1179.9	1027.9	879.7	750.5	630.8	539.6	465.5	404.7	357.2	323.0
45	1010.8	858.8	716.3	596.6	492.1	414.2	353.4	305.9	271.7	245.1
50	839.8	699.2	573.8	469.3	381.9	319.2	271.7	235.6	210.9	191.9
55	651.7	551.0	446.5	361.0	292.6	245.1	209.0	182.4	165.3	153.9
60	522.5	423.7	340.1	275.5	222.3	186.2	161.5	144.4	131.1	121.6
65	389.5	313.5	250.8	203.3	169.1	142.5	123.5	110.2	100.7	95.0
70	275.5	224.2	178.6	150.1	121.6	104.5	91.2	81.7	76.0	70.3
75	178.6	148.2	119.7	98.8	81.7	70.3	62.7	57.0	51.3	47.5
80	98.8	81.7	66.5	55.1	47.5	41.8	36.1	32.3	30.4	28.5
85	38.0	32.3	26.6	22.8	19.0	17.1	15.2	15.2	13.3	13.3
90	5.7	7.6	9.5	11.4	13.3	17.1	19.0	22.8	24.7	26.6
95	77.9	79.8	83.6	85.5	89.3	91.2	95.0	96.9	100.7	102.6
100	199.5	201.4	203.3	205.2	207.1	209.0	210.9	212.8	214.7	214.7
105	357.2	357.2	357.2	359.1	359.1	359.1	361.0	361.0	361.0	361.0
110	543.4	543.4	543.4	541.5	541.5	539.6	539.6	537.7	537.7	535.8
115	756.2	754.3	754.3	752.4	750.5	746.7	744.8	742.9	739.1	737.2
120	989.9	989.9	986.1	984.2	980.4	976.6	972.8	969.0	967.1	963.3
125	1236.9	1235.0	1231.2	1227.4	1223.6	1219.8	1214.1	1210.3	1206.5	1200.8
130	1476.3	1476.3	1472.5	1468.7	1464.9	1459.2	1455.4	1451.6	1445.9	1442.1
135	1702.4	1700.5	1698.6	1694.8	1691.0	1687.2	1683.4	1679.6	1673.9	1670.1

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CANDELA TABULATION - (Cont.)

140	1903.8	1901.9	1900.0	1898.1	1894.3	1890.5	1888.6	1884.8	1881.0	1877.2
145	2074.8	2074.8	2072.9	2071.0	2071.0	2067.2	2065.3	2063.4	2059.6	2057.7
150	2221.1	2221.1	2219.2	2219.2	2217.3	2215.4	2213.5	2211.6	2209.7	2207.8
155	2338.9	2338.9	2338.9	2337.0	2337.0	2337.0	2335.1	2335.1	2333.2	2333.2
160	2433.9	2433.9	2433.9	2433.9	2433.9	2433.9	2432.0	2432.0	2430.1	2430.1
165	2506.1	2506.1	2506.1	2506.1	2506.1	2506.1	2506.1	2504.2	2504.2	2504.2
170	2557.4	2557.4	2557.4	2557.4	2557.4	2555.5	2557.4	2557.4	2555.5	2555.5
175	2585.9	2585.9	2585.9	2585.9	2585.9	2585.9	2585.9	2585.9	2584.0	2585.9
180	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6

Vert. Horizontal Angles
Angles

	150	155	160	165	170	175	180
0	2057.7	2057.7	2057.7	2057.7	2057.7	2057.7	2057.7
5	1862.0	1854.4	1844.9	1839.2	1835.4	1831.6	1831.6
10	1584.6	1561.8	1542.8	1527.6	1518.1	1510.5	1508.6
15	1282.5	1246.4	1217.9	1195.1	1179.9	1170.4	1166.6
20	989.9	950.0	915.8	891.1	872.1	860.7	858.8
25	739.1	699.2	668.8	644.1	627.0	617.5	613.7
30	543.4	509.2	482.6	461.7	448.4	440.8	437.0
35	399.0	370.5	349.6	334.4	323.0	317.3	315.4
40	294.5	275.5	260.3	248.9	243.2	237.5	237.5
45	226.1	212.8	201.4	193.8	190.0	186.2	186.2
50	178.6	169.1	161.5	157.7	155.8	153.9	152.0
55	144.4	136.8	133.0	129.2	127.3	125.4	125.4
60	114.0	110.2	106.4	104.5	102.6	100.7	100.7
65	89.3	85.5	83.6	81.7	79.8	79.8	79.8
70	66.5	64.6	62.7	60.8	60.8	58.9	58.9
75	45.6	43.7	41.8	41.8	41.8	39.9	39.9
80	26.6	26.6	24.7	24.7	24.7	24.7	24.7
85	11.4	11.4	11.4	11.4	11.4	11.4	11.4
90	30.4	32.3	34.2	36.1	36.1	38.0	38.0
95	104.5	106.4	108.3	110.2	110.2	112.1	112.1
100	216.6	218.5	218.5	220.4	220.4	220.4	220.4
105	361.0	361.0	361.0	361.0	361.0	361.0	361.0
110	533.9	533.9	532.0	532.0	532.0	530.1	530.1
115	735.3	733.4	731.5	729.6	729.6	727.7	727.7
120	959.5	955.7	953.8	951.9	950.0	950.0	950.0
125	1197.0	1195.1	1191.3	1189.4	1187.5	1185.6	1185.6
130	1438.3	1434.5	1430.7	1428.8	1426.9	1425.0	1425.0
135	1666.3	1664.4	1660.6	1658.7	1656.8	1654.9	1654.9
140	1873.4	1871.5	1869.6	1867.7	1863.9	1863.9	1863.9
145	2055.8	2052.0	2050.1	2050.1	2048.2	2048.2	2046.3
150	2207.8	2205.9	2204.0	2202.1	2202.1	2202.1	2202.1
155	2331.3	2329.4	2329.4	2327.5	2327.5	2327.5	2327.5
160	2430.1	2430.1	2430.1	2428.2	2428.2	2428.2	2428.2
165	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2
170	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5
175	2585.9	2584.0	2584.0	2584.0	2585.9	2584.0	2584.0
180	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6	2591.6

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	723.14	N.A.	6.20
0-30	1481.8	N.A.	12.70
0-40	2349.97	N.A.	20.20
0-60	3911.47	N.A.	33.60
0-80	4648.41	N.A.	39.90
0-90	4719.83	N.A.	40.50
10-90	4527.03	N.A.	38.80
20-40	1626.82	N.A.	14.00
20-50	2478.76	N.A.	21.30
40-70	2046.81	N.A.	17.60
60-80	736.95	N.A.	6.30
70-80	251.63	N.A.	2.20
80-90	71.42	N.A.	0.60
90-110	502.85	N.A.	4.30
90-120	1243.31	N.A.	10.70
90-130	2326.43	N.A.	20.00
90-150	4906.7	N.A.	42.10
90-180	6934.69	N.A.	59.50
110-180	6431.84	N.A.	55.20
0-180	11654.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	192.79
10-20	530.35
20-30	758.66
30-40	868.16
40-50	851.94
50-60	709.56
60-70	485.31
70-80	251.63
80-90	71.42
90-100	115.63
100-110	387.22
110-120	740.46
120-130	1083.13
130-140	1292.43
140-150	1287.84
150-160	1075.06
160-170	707.11
170-180	245.82

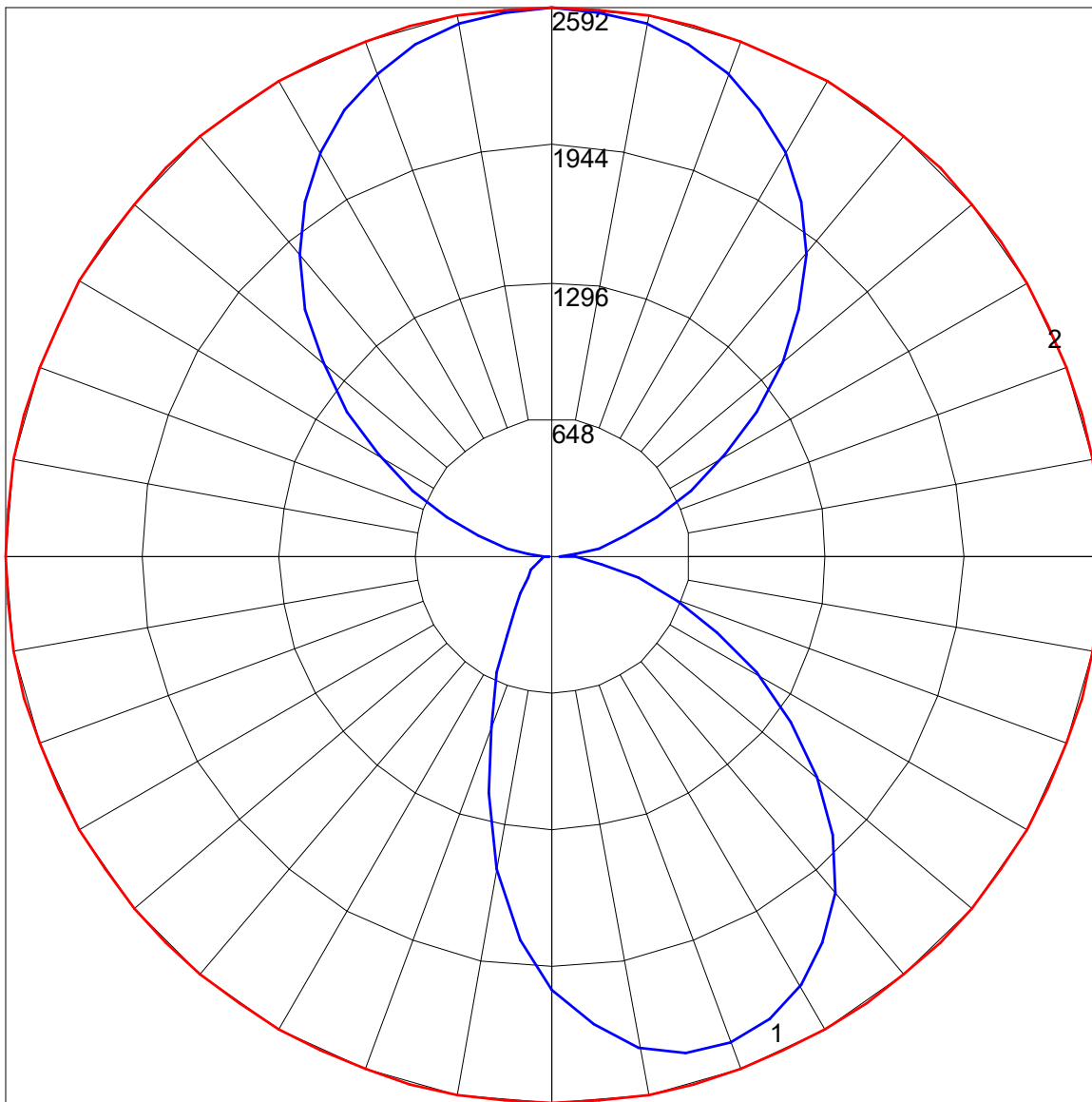
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_HO_359_U2A1.IES

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	78	78	78	62	62	62	47	47	47	40
1	96	92	88	85	87	84	80	78	69	66	64	55	53	52	42	41	40	34
2	87	80	74	69	79	73	68	64	60	57	54	48	46	44	37	36	34	29
3	80	71	64	58	72	65	59	54	53	49	45	43	40	37	33	31	29	25
4	73	63	55	49	66	57	51	46	47	43	39	38	35	32	30	27	25	22
5	67	56	48	42	61	51	44	39	43	37	33	34	31	28	27	24	22	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	22	20	17
7	57	45	37	32	52	42	35	30	35	29	26	28	24	22	22	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	35	28	24	29	24	20	24	20	17	19	16	14	12
10	46	34	27	23	42	32	25	21	27	22	18	22	18	16	18	15	13	11

POLAR GRAPH



Maximum Candela = 2591.6 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.)