

IES Report

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

707-Z3-4-48-XX-XX-X-0-Z-HO-359-U1A1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	103	106	108	112
Total Lumens, 4' rail length (1219mm)	11018	11366	11598	11714
Lumens per foot (305mm)	2755	2842	2900	2929
Lumens per foot UP (305mm)	1634	1685	1720	1737
Lumens per foot DOWN (305mm)	1121	1156	1180	1192
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_U1A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911545 (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-HO-359-U1A1-AL

[LUMINAIRE] ZipThree LED, 48", 3500K, 90 CRI, zipper board, symmetric lens 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	11598
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	114.0	114.0	114.0	112.1	110.2	108.3	106.4	104.5	100.7	98.8
100	222.3	222.3	222.3	220.4	220.4	218.5	218.5	216.6	214.7	212.8
105	361.0	361.0	361.0	361.0	361.0	361.0	361.0	359.1	359.1	359.1
110	528.2	528.2	530.1	530.1	530.1	530.1	532.0	532.0	533.9	533.9
115	722.0	723.9	723.9	723.9	725.8	727.7	729.6	731.5	733.4	735.3
120	940.5	940.5	942.4	942.4	944.3	946.2	950.0	951.9	955.7	959.5
125	1174.2	1174.2	1174.2	1176.1	1178.0	1181.8	1183.7	1187.5	1193.2	1197.0
130	1409.8	1409.8	1411.7	1413.6	1415.5	1417.4	1421.2	1425.0	1430.7	1434.5
135	1635.9	1637.8	1637.8	1639.7	1643.5	1645.4	1649.2	1653.0	1656.8	1662.5
140	1846.8	1846.8	1846.8	1848.7	1850.6	1854.4	1856.3	1860.1	1863.9	1867.7
145	2029.2	2029.2	2029.2	2031.1	2033.0	2034.9	2036.8	2040.6	2042.5	2044.4
150	2185.0	2185.0	2185.0	2185.0	2186.9	2188.8	2190.7	2192.6	2194.5	2196.4
155	2312.3	2312.3	2312.3	2312.3	2314.2	2314.2	2316.1	2316.1	2318.0	2318.0
160	2413.0	2413.0	2413.0	2413.0	2414.9	2414.9	2414.9	2414.9	2416.8	2416.8
165	2489.0	2489.0	2489.0	2489.0	2489.0	2489.0	2489.0	2490.9	2490.9	2490.9
170	2540.3	2540.3	2542.2	2540.3	2540.3	2540.3	2540.3	2542.2	2542.2	2542.2
175	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7
180	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3

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	81.7	79.8	77.9	76.0	77.9
100	210.9	207.1	205.2	203.3	201.4	199.5	199.5	197.6	195.7	197.6
105	359.1	357.2	357.2	355.3	355.3	353.4	353.4	353.4	351.5	353.4
110	533.9	535.8	535.8	537.7	537.7	537.7	537.7	537.7	537.7	537.7
115	737.2	739.1	741.0	742.9	744.8	746.7	748.6	748.6	748.6	748.6
120	961.4	965.2	969.0	972.8	976.6	978.5	980.4	980.4	980.4	980.4
125	1200.8	1204.6	1210.3	1214.1	1217.9	1219.8	1221.7	1223.6	1223.6	1223.6
130	1440.2	1444.0	1449.7	1453.5	1457.3	1459.2	1461.1	1463.0	1463.0	1463.0
135	1666.3	1670.1	1673.9	1677.7	1681.5	1683.4	1685.3	1687.2	1687.2	1687.2
140	1871.5	1875.3	1877.2	1881.0	1882.9	1884.8	1886.7	1888.6	1888.6	1888.6
145	2048.2	2050.1	2053.9	2053.9	2057.7	2057.7	2059.6	2059.6	2061.5	2059.6
150	2198.3	2200.2	2200.2	2202.1	2204.0	2204.0	2204.0	2205.9	2205.9	2205.9
155	2319.9	2319.9	2321.8	2321.8	2323.7	2323.7	2323.7	2323.7	2323.7	2323.7
160	2418.7	2418.7	2418.7	2418.7	2418.7	2418.7	2420.6	2420.6	2420.6	2420.6
165	2490.9	2490.9	2490.9	2490.9	2492.8	2492.8	2492.8	2492.8	2492.8	2492.8
170	2542.2	2542.2	2542.2	2542.2	2542.2	2542.2	2542.2	2542.2	2542.2	2542.2
175	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7	2572.6	2570.7	2570.7	2570.7
180	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3

**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	79.8	81.7	83.6	85.5	89.3	91.2	95.0	98.8	100.7	104.5
100	199.5	199.5	201.4	203.3	205.2	207.1	210.9	212.8	214.7	216.6
105	353.4	353.4	355.3	355.3	357.2	357.2	359.1	359.1	359.1	359.1
110	537.7	537.7	537.7	537.7	535.8	535.8	533.9	533.9	533.9	532.0
115	748.6	746.7	744.8	742.9	741.0	739.1	737.2	735.3	733.4	731.5
120	980.4	978.5	976.6	972.8	969.0	965.2	961.4	959.5	955.7	951.9
125	1221.7	1219.8	1217.9	1214.1	1210.3	1204.6	1200.8	1197.0	1193.2	1187.5
130	1461.1	1459.2	1457.3	1453.5	1449.7	1444.0	1440.2	1434.5	1430.7	1425.0
135	1685.3	1683.4	1681.5	1677.7	1673.9	1670.1	1666.3	1662.5	1656.8	1653.0

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CANDELA TABULATION - (Cont.)

140	1886.7	1884.8	1882.9	1881.0	1877.2	1875.3	1871.5	1867.7	1863.9	1860.1
145	2059.6	2057.7	2057.7	2053.9	2053.9	2050.1	2048.2	2044.4	2042.5	2040.6
150	2204.0	2204.0	2204.0	2202.1	2200.2	2200.2	2198.3	2196.4	2194.5	2192.6
155	2323.7	2323.7	2323.7	2321.8	2321.8	2319.9	2319.9	2318.0	2318.0	2316.1
160	2420.6	2418.7	2418.7	2418.7	2418.7	2418.7	2418.7	2416.8	2416.8	2414.9
165	2492.8	2492.8	2492.8	2490.9	2490.9	2490.9	2490.9	2490.9	2490.9	2490.9
170	2542.2	2542.2	2542.2	2542.2	2542.2	2542.2	2542.2	2542.2	2542.2	2542.2
175	2572.6	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7
180	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3

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	106.4	108.3	110.2	112.1	114.0	114.0	114.0
100	218.5	218.5	220.4	220.4	222.3	222.3	222.3
105	361.0	361.0	361.0	361.0	361.0	361.0	361.0
110	532.0	530.1	530.1	530.1	530.1	528.2	528.2
115	729.6	727.7	725.8	723.9	723.9	723.9	722.0
120	950.0	946.2	944.3	942.4	942.4	940.5	940.5
125	1183.7	1181.8	1178.0	1176.1	1174.2	1174.2	1174.2
130	1421.2	1417.4	1415.5	1413.6	1411.7	1409.8	1409.8
135	1649.2	1645.4	1643.5	1639.7	1637.8	1637.8	1635.9
140	1856.3	1854.4	1850.6	1848.7	1846.8	1846.8	1846.8
145	2036.8	2034.9	2033.0	2031.1	2029.2	2029.2	2029.2
150	2190.7	2188.8	2186.9	2185.0	2185.0	2185.0	2185.0
155	2316.1	2314.2	2314.2	2312.3	2312.3	2312.3	2312.3
160	2414.9	2414.9	2414.9	2413.0	2413.0	2413.0	2413.0
165	2489.0	2489.0	2489.0	2489.0	2489.0	2489.0	2489.0
170	2540.3	2540.3	2540.3	2540.3	2542.2	2540.3	2540.3
175	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7	2570.7
180	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3	2578.3

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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.	12.80
0-40	2349.97	N.A.	20.30
0-60	3911.47	N.A.	33.70
0-80	4648.41	N.A.	40.10
0-90	4719.83	N.A.	40.70
10-90	4527.03	N.A.	39.00
20-40	1626.82	N.A.	14.00
20-50	2478.76	N.A.	21.40
40-70	2046.81	N.A.	17.60
60-80	736.95	N.A.	6.40
70-80	251.63	N.A.	2.20
80-90	71.42	N.A.	0.60
90-110	501.66	N.A.	4.30
90-120	1235.19	N.A.	10.60
90-130	2306.48	N.A.	19.90
90-150	4862.97	N.A.	41.90
90-180	6878.23	N.A.	59.30
110-180	6376.57	N.A.	55.00
0-180	11598.05	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	116.29
100-110	385.36
110-120	733.53
120-130	1071.29
130-140	1279.35
140-150	1277.14
150-160	1067.85
160-170	702.96
170-180	244.44

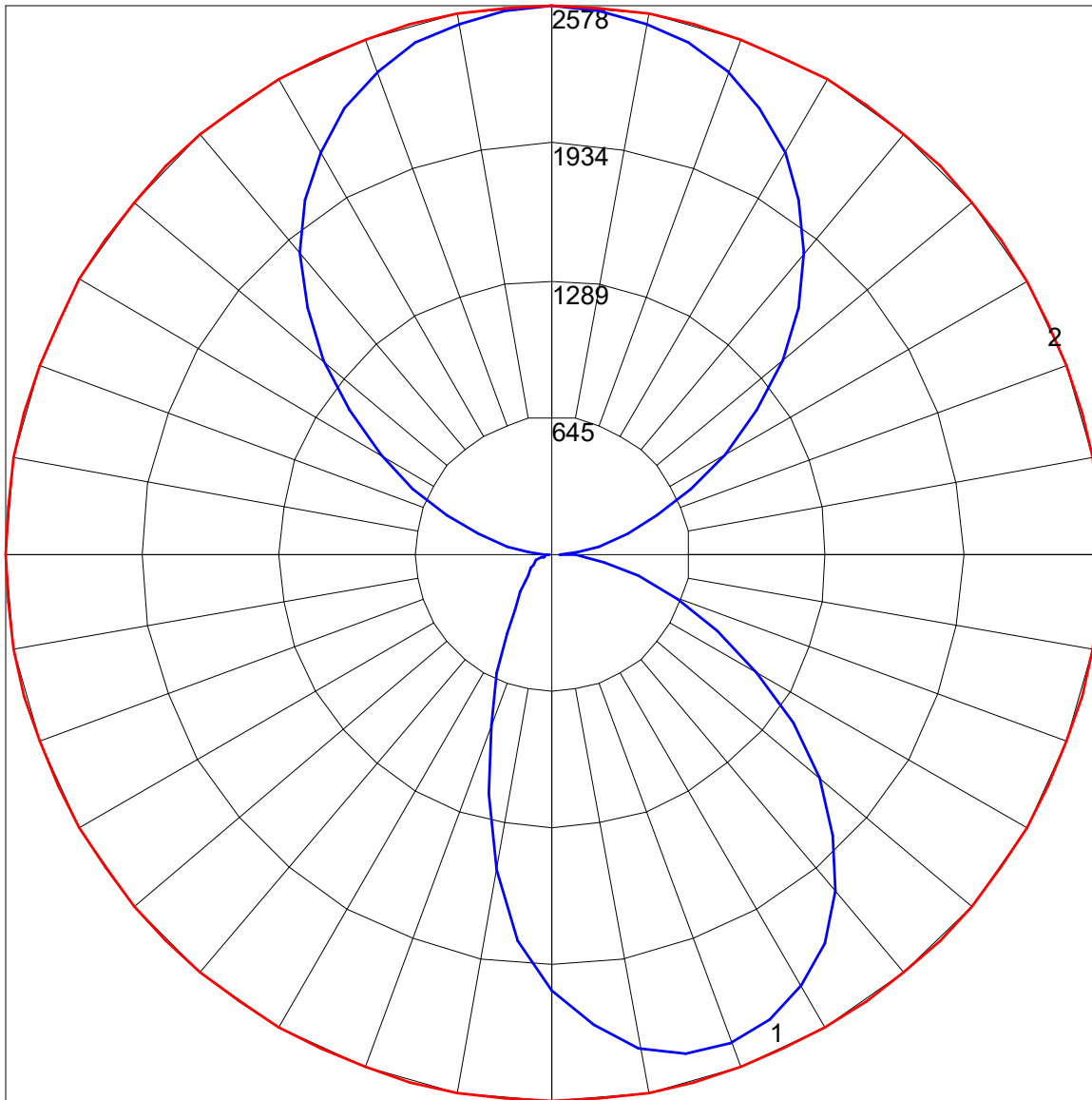
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z3_HO_359_U1A1.IES

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	48	48	48	41
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	42	41	41	35
2	87	80	74	69	79	73	68	64	60	57	54	49	46	44	37	36	34	29
3	80	71	64	58	73	65	59	54	53	49	45	43	40	37	33	31	29	25
4	73	63	55	49	66	57	51	46	48	43	39	38	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	24	22	19
6	62	50	42	37	56	46	39	34	38	33	29	31	27	24	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	28	25	22	22	20	18	15
8	53	41	33	28	48	38	31	26	32	27	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 = 2578.3 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.)