

IES Report

BoxRail® | 207 | Wide Batwing, up | 85° Asymmetric, down | 90 CRI | HO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-G1A1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	77	79	81	82
Total Lumens, 4' rail length (1219mm)	7864	8112	8278	8361
Lumens per foot (305mm)	1966	2028	2069	2090
Lumens per foot UP (305mm)	1223	1261	1287	1300
Lumens per foot DOWN (305mm)	743	767	782	790
Input Power (W), 4' rail length (1219mm)	103.1	103.1	103.1	103.1
Watts per foot (305mm)	25.8	25.8	25.8	25.8
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_207_BX_HO_359_G1A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010904 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUEDATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 207-BX-48-Z-HO-359-G1A1

[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board, wide batwing lens up,

[MORE] 85° asymmetric 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	8278
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	103.13
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)	0.08 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.09 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	35227	36141	28878
55	23147	24545	23512
65	12175	14446	18737
75	2942	6247	14338
85	423	499	6993

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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	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1
5	1571.3	1569.4	1569.4	1556.1	1546.6	1535.2	1521.9	1504.8	1487.7	1466.8
10	1856.3	1854.4	1843.0	1829.7	1812.6	1791.7	1765.1	1732.8	1698.6	1660.6
15	2082.4	2078.6	2063.4	2046.3	2021.6	1989.3	1953.2	1913.3	1869.6	1820.2
20	2205.9	2200.2	2186.9	2167.9	2139.4	2107.1	2071.0	2027.3	1983.6	1919.0
25	2232.5	2224.9	2215.4	2194.5	2169.8	2139.4	2103.3	2069.1	2002.6	1934.2
30	2162.2	2154.6	2145.1	2128.0	2107.1	2082.4	2055.8	2006.4	1949.4	1888.6
35	2019.7	2012.1	2002.6	1991.2	1970.3	1947.5	1920.9	1873.4	1831.6	1772.7
40	1816.4	1810.7	1803.1	1791.7	1776.5	1755.6	1723.3	1689.1	1649.2	1594.1
45	1575.1	1571.3	1563.7	1554.2	1539.0	1521.9	1493.4	1468.7	1421.2	1377.5
50	1303.4	1301.5	1295.8	1290.1	1280.6	1265.4	1244.5	1214.1	1178.0	1134.3
55	1029.8	1026.0	1027.9	1024.1	1016.5	1007.0	991.8	963.3	936.7	904.4
60	763.8	763.8	765.7	767.6	765.7	758.1	748.6	733.4	710.6	687.8
65	522.5	526.3	530.1	532.0	533.9	533.9	530.1	524.4	513.0	497.8
70	304.0	307.8	315.4	321.1	328.7	334.4	338.2	342.0	338.2	332.5
75	117.8	125.4	136.8	142.5	152.0	167.2	176.7	184.3	190.0	193.8
80	19.0	30.4	26.6	30.4	34.2	39.9	45.6	55.1	62.7	74.1
85	15.2	15.2	15.2	15.2	15.2	13.3	13.3	11.4	11.4	13.3
90	17.1	17.1	17.1	17.1	15.2	15.2	15.2	13.3	13.3	11.4
95	39.9	55.1	55.1	57.0	60.8	68.4	72.2	83.6	95.0	102.6
100	171.0	182.4	191.9	203.3	220.4	235.6	254.6	273.6	286.9	298.3
105	387.6	399.0	414.2	431.3	450.3	478.8	503.5	516.8	524.4	511.1
110	706.8	708.7	729.6	744.8	767.6	784.7	799.9	794.2	767.6	722.0
115	1092.5	1088.7	1090.6	1098.2	1100.1	1102.0	1084.9	1046.9	997.5	923.4
120	1438.3	1432.6	1417.4	1409.8	1402.2	1364.2	1320.5	1263.5	1166.6	1065.9
125	1681.5	1670.1	1649.2	1622.6	1592.2	1533.3	1472.5	1377.5	1278.7	1168.5
130	1786.0	1776.5	1751.8	1715.7	1670.1	1607.4	1527.6	1434.5	1328.1	1219.8
135	1787.9	1780.3	1753.7	1717.6	1668.2	1607.4	1525.7	1438.3	1339.5	1240.7
140	1719.5	1711.9	1691.0	1656.8	1613.1	1556.1	1485.8	1409.8	1326.2	1242.6
145	1620.7	1613.1	1596.0	1567.5	1529.5	1483.9	1428.8	1366.1	1297.7	1229.3
150	1510.5	1504.8	1491.5	1468.7	1440.2	1404.1	1360.4	1312.9	1261.6	1206.5
155	1402.2	1398.4	1388.9	1371.8	1350.9	1326.2	1293.9	1259.7	1221.7	1185.6
160	1305.3	1303.4	1295.8	1286.3	1271.1	1254.0	1235.0	1210.3	1183.7	1160.9
165	1223.6	1221.7	1217.9	1212.2	1204.6	1195.1	1183.7	1170.4	1157.1	1141.9
170	1162.8	1160.9	1159.0	1157.1	1153.3	1151.4	1147.6	1140.0	1134.3	1128.6
175	1126.7	1126.7	1126.7	1124.8	1124.8	1124.8	1122.9	1122.9	1121.0	1121.0
180	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0

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	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1
5	1445.9	1423.1	1400.3	1373.7	1349.0	1322.4	1293.9	1267.3	1238.8	1214.1
10	1618.8	1577.0	1533.3	1482.0	1428.8	1375.6	1322.4	1267.3	1212.2	1160.9
15	1763.2	1696.7	1628.3	1558.0	1487.7	1409.8	1330.0	1252.1	1172.3	1100.1
20	1846.8	1768.9	1689.1	1594.1	1497.2	1404.1	1303.4	1204.6	1107.7	1014.6
25	1867.7	1784.1	1687.2	1594.1	1483.9	1375.6	1265.4	1151.4	1039.3	932.9
30	1816.4	1736.6	1649.2	1539.0	1434.5	1312.9	1197.0	1071.6	950.0	839.8
35	1702.4	1630.2	1535.2	1436.4	1324.3	1210.3	1094.4	970.9	851.2	739.1
40	1533.3	1455.4	1373.7	1282.5	1176.1	1071.6	957.6	847.4	739.1	636.5
45	1314.8	1250.2	1181.8	1096.3	1008.9	915.8	815.1	718.2	621.3	533.9
50	1090.6	1033.6	970.9	906.3	834.1	752.4	659.3	571.9	513.0	438.9
55	864.5	817.0	763.8	708.7	647.9	594.7	537.7	476.9	414.2	357.2
60	655.5	604.2	566.2	535.8	503.5	465.5	419.9	370.5	326.8	281.2

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CANDELA TABULATION - (Cont.)

65	478.8	457.9	435.1	408.5	380.0	347.7	317.3	279.3	247.0	216.6
70	323.0	311.6	300.2	285.0	266.0	247.0	226.1	201.4	180.5	165.3
75	193.8	191.9	193.8	188.1	176.7	167.2	152.0	131.1	119.7	108.3
80	81.7	87.4	95.0	91.2	87.4	83.6	77.9	70.3	64.6	60.8
85	17.1	17.1	17.1	20.9	22.8	24.7	24.7	24.7	22.8	22.8
90	9.5	9.5	7.6	5.7	5.7	5.7	3.8	3.8	3.8	3.8
95	106.4	104.5	115.9	98.8	87.4	81.7	76.0	70.3	70.3	70.3
100	290.7	271.7	247.0	216.6	188.1	174.8	161.5	152.0	152.0	152.0
105	478.8	435.1	385.7	338.2	300.2	273.6	252.7	241.3	243.2	247.0
110	661.2	592.8	524.4	459.8	406.6	370.5	351.5	336.3	334.4	343.9
115	834.1	737.2	644.1	568.1	509.2	467.4	442.7	425.6	423.7	433.2
120	959.5	851.2	746.7	663.1	604.2	560.5	530.1	516.8	514.9	520.6
125	1046.9	934.8	836.0	746.7	687.8	642.2	611.8	596.6	592.8	602.3
130	1105.8	1001.3	908.2	828.4	761.9	718.2	682.1	657.4	653.6	674.5
135	1140.0	1046.9	963.3	891.1	830.3	786.6	760.0	742.9	737.2	750.5
140	1157.1	1077.3	1005.1	940.5	889.2	847.4	822.7	809.4	801.8	815.1
145	1160.9	1094.4	1037.4	984.2	940.5	906.3	881.6	872.1	866.4	879.7
150	1157.1	1105.8	1058.3	1018.4	982.3	957.6	934.8	929.1	925.3	936.7
155	1147.6	1109.6	1077.3	1045.0	1022.2	1001.3	986.1	982.3	978.5	988.0
160	1138.1	1111.5	1088.7	1069.7	1052.6	1037.4	1031.7	1027.9	1026.0	1035.5
165	1126.7	1113.4	1102.0	1088.7	1077.3	1073.5	1069.7	1067.8	1065.9	1071.6
170	1121.0	1113.4	1107.7	1105.8	1102.0	1102.0	1100.1	1098.2	1098.2	1102.0
175	1121.0	1119.1	1119.1	1119.1	1117.2	1117.2	1117.2	1115.3	1115.3	1117.2
180	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1
5	1187.5	1160.9	1136.2	1111.5	1088.7	1067.8	1046.9	1027.9	1010.8	995.6
10	1111.5	1062.1	1012.7	967.1	923.4	887.3	855.0	824.6	796.1	771.4
15	1027.9	955.7	893.0	834.1	780.9	729.6	682.1	646.0	617.5	592.8
20	925.3	843.6	769.5	703.0	636.5	592.8	552.9	513.0	478.8	456.0
25	830.3	741.0	661.2	587.1	532.0	480.7	440.8	410.4	381.9	359.1
30	731.5	644.1	560.5	497.8	438.9	397.1	361.0	330.6	311.6	294.5
35	636.5	551.0	476.9	414.2	366.7	328.7	300.2	277.4	260.3	248.9
40	543.4	461.7	400.9	347.7	307.8	277.4	254.6	239.4	226.1	216.6
45	456.0	385.7	334.4	292.6	258.4	235.6	220.4	207.1	199.5	191.9
50	376.2	323.0	277.4	245.1	222.3	203.3	190.0	182.4	174.8	171.0
55	305.9	264.1	231.8	205.2	186.2	174.8	165.3	159.6	153.9	150.1
60	245.1	214.7	190.0	171.0	155.8	146.3	140.6	134.9	129.2	127.3
65	190.0	169.1	152.0	136.8	127.3	119.7	114.0	110.2	108.3	106.4
70	142.5	127.3	114.0	104.5	98.8	95.0	91.2	87.4	85.5	83.6
75	96.9	85.5	77.9	74.1	72.2	66.5	62.7	58.9	55.1	51.3
80	53.2	47.5	47.5	43.7	39.9	36.1	32.3	30.4	30.4	32.3
85	20.9	17.1	17.1	17.1	15.2	13.3	13.3	13.3	13.3	15.2
90	1.9	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
95	72.2	62.7	62.7	68.4	70.3	66.5	68.4	62.7	58.9	51.3
100	161.5	174.8	195.7	203.3	216.6	218.5	218.5	203.3	197.6	188.1
105	256.5	277.4	307.8	347.7	393.3	425.6	442.7	435.1	427.5	402.8
110	355.3	378.1	416.1	471.2	535.8	598.5	649.8	703.0	735.3	727.7
115	450.3	476.9	522.5	579.5	655.5	752.4	845.5	923.4	988.0	1035.5
120	541.5	573.8	619.4	680.2	763.8	872.1	984.2	1083.0	1178.0	1261.6
125	625.1	657.4	703.0	771.4	858.8	965.2	1081.1	1208.4	1324.3	1421.2
130	699.2	735.3	784.7	853.1	938.6	1037.4	1147.6	1267.3	1385.1	1501.0
135	773.3	807.5	856.9	921.5	997.5	1088.7	1189.4	1299.6	1406.0	1510.5

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CANDELA TABULATION - (Cont.)

140	837.9	872.1	917.7	974.7	1046.9	1126.7	1212.2	1307.2	1398.4	1489.6
145	898.7	929.1	969.0	1018.4	1079.2	1145.7	1217.9	1293.9	1369.9	1444.0
150	951.9	980.4	1010.8	1052.6	1098.2	1153.3	1210.3	1269.2	1331.9	1387.0
155	1001.3	1022.2	1046.9	1075.4	1113.4	1153.3	1195.1	1238.8	1282.5	1324.3
160	1045.0	1054.5	1075.4	1096.3	1119.1	1147.6	1178.0	1206.5	1233.1	1263.5
165	1079.2	1088.7	1096.3	1111.5	1126.7	1141.9	1157.1	1176.1	1195.1	1212.2
170	1105.8	1111.5	1117.2	1121.0	1126.7	1136.2	1143.8	1153.3	1160.9	1170.4
175	1119.1	1122.9	1124.8	1126.7	1128.6	1130.5	1132.4	1134.3	1136.2	1138.1
180	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0

**Vert.
Angles**

Horizontal Angles

	150	155	160	165	170	175	180
0	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1	1252.1
5	980.4	969.0	959.5	951.9	948.1	944.3	944.3
10	750.5	731.5	714.4	703.0	693.5	689.7	687.8
15	570.0	549.1	533.9	520.6	511.1	505.4	505.4
20	437.0	419.9	406.6	395.2	385.7	381.9	380.0
25	343.9	332.5	321.1	313.5	305.9	302.1	302.1
30	281.2	273.6	266.0	260.3	256.5	254.6	252.7
35	239.4	233.7	229.9	226.1	222.3	222.3	222.3
40	210.9	205.2	203.3	201.4	201.4	199.5	199.5
45	188.1	184.3	184.3	184.3	184.3	184.3	184.3
50	169.1	167.2	167.2	167.2	169.1	169.1	169.1
55	148.2	148.2	150.1	152.0	153.9	153.9	153.9
60	125.4	125.4	127.3	129.2	134.9	138.7	138.7
65	104.5	104.5	104.5	106.4	108.3	117.8	119.7
70	83.6	83.6	83.6	81.7	77.9	83.6	91.2
75	51.3	51.3	51.3	55.1	55.1	49.4	58.9
80	32.3	34.2	36.1	38.0	39.9	38.0	39.9
85	15.2	17.1	17.1	19.0	19.0	19.0	20.9
90	3.8	3.8	3.8	3.8	3.8	3.8	1.9
95	47.5	47.5	47.5	49.4	49.4	53.2	49.4
100	178.6	172.9	171.0	165.3	161.5	157.7	157.7
105	389.5	383.8	376.2	376.2	370.5	330.6	404.7
110	742.9	716.3	729.6	674.5	691.6	729.6	765.7
115	1077.3	1107.7	1122.9	1138.1	1189.4	1305.3	1320.5
120	1324.3	1381.3	1449.7	1514.3	1594.1	1630.2	1639.7
125	1529.5	1603.6	1700.5	1755.6	1791.7	1820.2	1833.5
130	1603.6	1696.7	1770.8	1822.1	1865.8	1896.2	1907.6
135	1607.4	1696.7	1763.2	1812.6	1858.2	1886.7	1896.2
140	1573.2	1649.2	1706.2	1755.6	1795.5	1822.1	1831.6
145	1514.3	1575.1	1626.4	1670.1	1702.4	1723.3	1730.9
150	1440.2	1489.6	1531.4	1565.6	1592.2	1607.4	1613.1
155	1364.2	1400.3	1430.7	1455.4	1474.4	1485.8	1489.6
160	1292.0	1314.8	1335.7	1352.8	1364.2	1369.9	1373.7
165	1227.4	1240.7	1254.0	1261.6	1267.3	1273.0	1274.9
170	1178.0	1183.7	1187.5	1191.3	1195.1	1197.0	1198.9
175	1140.0	1141.9	1141.9	1143.8	1145.7	1145.7	1147.6
180	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0	1121.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	466.90	N.A.	5.60
0-30	1001.03	N.A.	12.10
0-40	1627.03	N.A.	19.70
0-60	2683.26	N.A.	32.40
0-80	3103.97	N.A.	37.50
0-90	3129.22	N.A.	37.80
10-90	3010.23	N.A.	36.40
20-40	1160.13	N.A.	14.00
20-50	1753.54	N.A.	21.20
40-70	1349.46	N.A.	16.30
60-80	420.71	N.A.	5.10
70-80	127.48	N.A.	1.50
80-90	25.26	N.A.	0.30
90-110	509.97	N.A.	6.20
90-120	1334.15	N.A.	16.10
90-130	2370.98	N.A.	28.60
90-150	4149.56	N.A.	50.10
90-180	5148.78	N.A.	62.20
110-180	4638.81	N.A.	56.00
0-180	8278.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	118.99
10-20	347.91
20-30	534.14
30-40	626.00
40-50	593.40
50-60	462.82
60-70	293.23
70-80	127.48
80-90	25.26
90-100	95.22
100-110	414.75
110-120	824.19
120-130	1036.83
130-140	984.27
140-150	794.30
150-160	561.81
160-170	329.42
170-180	107.99

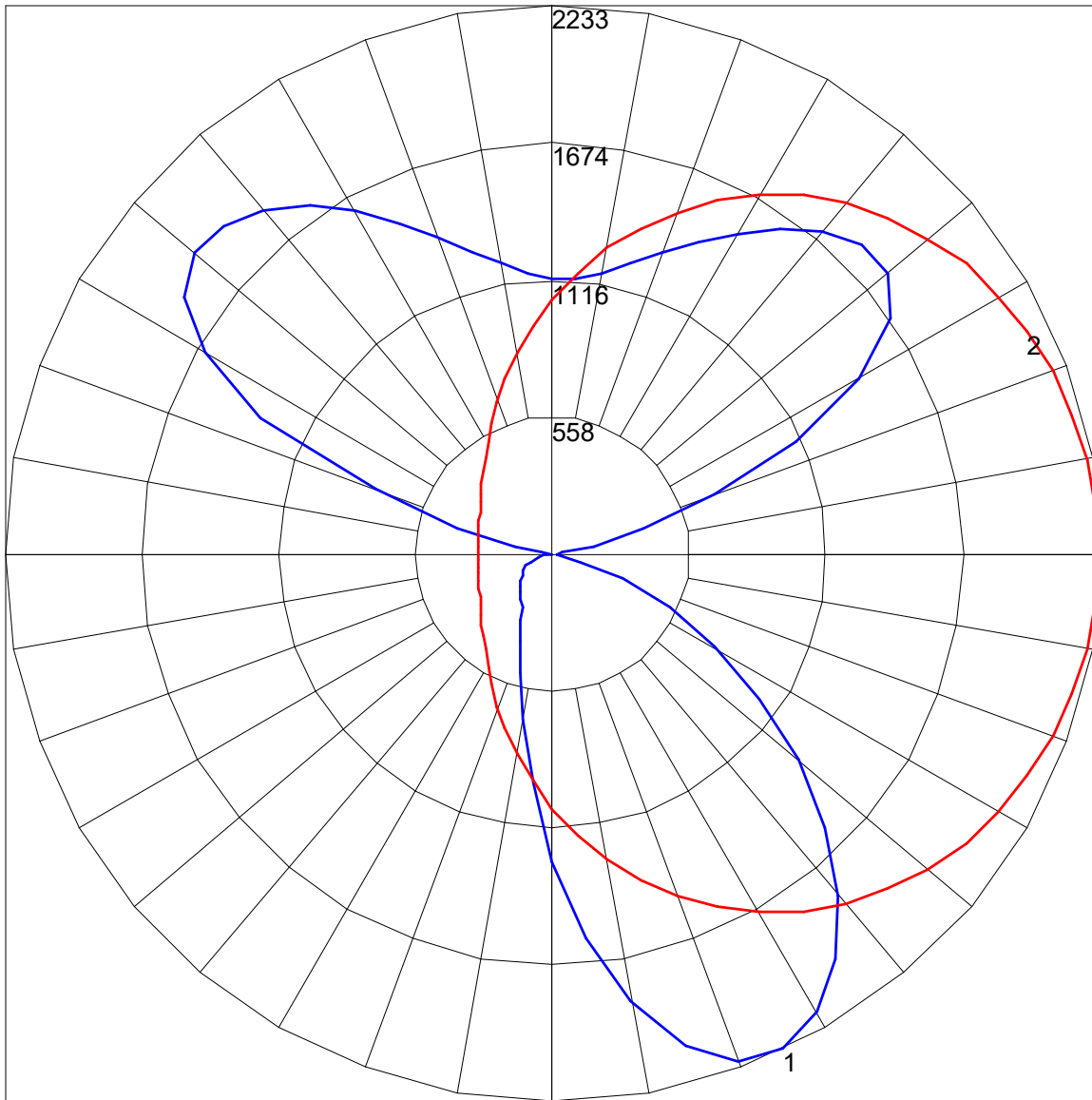
IES INDOOR REPORT
 PHOTOMETRIC FILENAME : VODE_207_BX_HO_359_G1A1.IES

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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	88	84	87	83	80	77	68	66	64	53	52	51	40	39	39	33
2	87	80	74	69	79	73	68	64	60	56	53	47	45	43	36	34	33	28
3	80	71	64	58	72	64	58	54	53	48	45	42	39	37	32	30	28	24
4	73	63	55	49	66	57	51	46	47	42	38	38	34	31	29	26	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	37	56	46	39	34	38	33	29	30	27	24	24	21	19	16
7	57	45	37	32	52	41	35	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	38	31	26	31	26	23	25	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14	12
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10

POLAR GRAPH



Maximum Candela = 2232.5 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)