

IES Report

BoxRail® | 207 | Wide Batwing, up | 85° Asymmetric, down | 80 CRI | HO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-G1A1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	89	92	94	94
Total Lumens, 4' rail length (1219mm)	9122	9410	9602	9602
Lumens per foot (305mm)	2281	2353	2401	2401
Lumens per foot UP (305mm)	1418	1463	1493	1493
Lumens per foot DOWN (305mm)	862	889	907	907
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	82	82	82	82

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_35_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

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 207-BX-48-Z-HO-35-G1A1

[LUMINAIRE] BoxRail LED, 48", 3500K, 80 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	9585
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
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	40789	41848	33438
55	26801	28421	27225
65	14097	16727	21695
75	3407	7233	16602
85	490	578	8097

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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	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8
5	1819.4	1817.2	1817.2	1801.8	1790.8	1777.6	1762.2	1742.4	1722.6	1698.4
10	2149.4	2147.2	2134.0	2118.6	2098.8	2074.6	2043.8	2006.4	1966.8	1922.8
15	2411.2	2406.8	2389.2	2369.4	2340.8	2303.4	2261.6	2215.4	2164.8	2107.6
20	2554.2	2547.6	2532.2	2510.2	2477.2	2439.8	2398.0	2347.4	2296.8	2222.0
25	2585.0	2576.2	2565.2	2541.0	2512.4	2477.2	2435.4	2395.8	2318.8	2239.6
30	2503.6	2494.8	2483.8	2464.0	2439.8	2411.2	2380.4	2323.2	2257.2	2186.8
35	2338.6	2329.8	2318.8	2305.6	2281.4	2255.0	2224.2	2169.2	2120.8	2052.6
40	2103.2	2096.6	2087.8	2074.6	2057.0	2032.8	1995.4	1955.8	1909.6	1845.8
45	1823.8	1819.4	1810.6	1799.6	1782.0	1762.2	1729.2	1700.6	1645.6	1595.0
50	1509.2	1507.0	1500.4	1493.8	1482.8	1465.2	1441.0	1405.8	1364.0	1313.4
55	1192.4	1188.0	1190.2	1185.8	1177.0	1166.0	1148.4	1115.4	1084.6	1047.2
60	884.4	884.4	886.6	888.8	886.6	877.8	866.8	849.2	822.8	796.4
65	605.0	609.4	613.8	616.0	618.2	618.2	613.8	607.2	594.0	576.4
70	352.0	356.4	365.2	371.8	380.6	387.2	391.6	396.0	391.6	385.0
75	136.4	145.2	158.4	165.0	176.0	193.6	204.6	213.4	220.0	224.4
80	22.0	35.2	30.8	35.2	39.6	46.2	52.8	63.8	72.6	85.8
85	17.6	17.6	17.6	17.6	17.6	15.4	15.4	13.2	13.2	15.4
90	19.8	19.8	19.8	19.8	17.6	17.6	17.6	15.4	15.4	13.2
95	46.2	63.8	63.8	66.0	70.4	79.2	83.6	96.8	110.0	118.8
100	198.0	211.2	222.2	235.4	255.2	272.8	294.8	316.8	332.2	345.4
105	448.8	462.0	479.6	499.4	521.4	554.4	583.0	598.4	607.2	591.8
110	818.4	820.6	844.8	862.4	888.8	908.6	926.2	919.6	888.8	836.0
115	1265.0	1260.6	1262.8	1271.6	1273.8	1276.0	1256.2	1212.2	1155.0	1069.2
120	1665.4	1658.8	1641.2	1632.4	1623.6	1579.6	1529.0	1463.0	1350.8	1234.2
125	1947.0	1933.8	1909.6	1878.8	1843.6	1775.4	1705.0	1595.0	1480.6	1353.0
130	2068.0	2057.0	2028.4	1986.6	1933.8	1861.2	1768.8	1661.0	1537.8	1412.4
135	2070.2	2061.4	2030.6	1988.8	1931.6	1861.2	1766.6	1665.4	1551.0	1436.6
140	1991.0	1982.2	1958.0	1918.4	1867.8	1801.8	1720.4	1632.4	1535.6	1438.8
145	1876.6	1867.8	1848.0	1815.0	1771.0	1718.2	1654.4	1581.8	1502.6	1423.4
150	1749.0	1742.4	1727.0	1700.6	1667.6	1625.8	1575.2	1520.2	1460.8	1397.0
155	1623.6	1619.2	1608.2	1588.4	1564.2	1535.6	1498.2	1458.6	1414.6	1372.8
160	1511.4	1509.2	1500.4	1489.4	1471.8	1452.0	1430.0	1401.4	1370.6	1344.2
165	1416.8	1414.6	1410.2	1403.6	1394.8	1383.8	1370.6	1355.2	1339.8	1322.2
170	1346.4	1344.2	1342.0	1339.8	1335.4	1333.2	1328.8	1320.0	1313.4	1306.8
175	1304.6	1304.6	1304.6	1302.4	1302.4	1302.4	1300.2	1300.2	1298.0	1298.0
180	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0

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	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8
5	1674.2	1647.8	1621.4	1590.6	1562.0	1531.2	1498.2	1467.4	1434.4	1405.8
10	1874.4	1826.0	1775.4	1716.0	1654.4	1592.8	1531.2	1467.4	1403.6	1344.2
15	2041.6	1964.6	1885.4	1804.0	1722.6	1632.4	1540.0	1449.8	1357.4	1273.8
20	2138.4	2048.2	1955.8	1845.8	1733.6	1625.8	1509.2	1394.8	1282.6	1174.8
25	2162.6	2065.8	1953.6	1845.8	1718.2	1592.8	1465.2	1333.2	1203.4	1080.2
30	2103.2	2010.8	1909.6	1782.0	1661.0	1520.2	1386.0	1240.8	1100.0	972.4
35	1971.2	1887.6	1777.6	1663.2	1533.4	1401.4	1267.2	1124.2	985.6	855.8
40	1775.4	1685.2	1590.6	1485.0	1361.8	1240.8	1108.8	981.2	855.8	737.0
45	1522.4	1447.6	1368.4	1269.4	1168.2	1060.4	943.8	831.6	719.4	618.2
50	1262.8	1196.8	1124.2	1049.4	965.8	871.2	763.4	662.2	594.0	508.2
55	1001.0	946.0	884.4	820.6	750.2	688.6	622.6	552.2	479.6	413.6
60	759.0	699.6	655.6	620.4	583.0	539.0	486.2	429.0	378.4	325.6

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CANDELA TABULATION - (Cont.)

65	554.4	530.2	503.8	473.0	440.0	402.6	367.4	323.4	286.0	250.8
70	374.0	360.8	347.6	330.0	308.0	286.0	261.8	233.2	209.0	191.4
75	224.4	222.2	224.4	217.8	204.6	193.6	176.0	151.8	138.6	125.4
80	94.6	101.2	110.0	105.6	101.2	96.8	90.2	81.4	74.8	70.4
85	19.8	19.8	19.8	24.2	26.4	28.6	28.6	28.6	26.4	26.4
90	11.0	11.0	8.8	6.6	6.6	6.6	4.4	4.4	4.4	4.4
95	123.2	121.0	134.2	114.4	101.2	94.6	88.0	81.4	81.4	81.4
100	336.6	314.6	286.0	250.8	217.8	202.4	187.0	176.0	176.0	176.0
105	554.4	503.8	446.6	391.6	347.6	316.8	292.6	279.4	281.6	286.0
110	765.6	686.4	607.2	532.4	470.8	429.0	407.0	389.4	387.2	398.2
115	965.8	853.6	745.8	657.8	589.6	541.2	512.6	492.8	490.6	501.6
120	1111.0	985.6	864.6	767.8	699.6	649.0	613.8	598.4	596.2	602.8
125	1212.2	1082.4	968.0	864.6	796.4	743.6	708.4	690.8	686.4	697.4
130	1280.4	1159.4	1051.6	959.2	882.2	831.6	789.8	761.2	756.8	781.0
135	1320.0	1212.2	1115.4	1031.8	961.4	910.8	880.0	860.2	853.6	869.0
140	1339.8	1247.4	1163.8	1089.0	1029.6	981.2	952.6	937.2	928.4	943.8
145	1344.2	1267.2	1201.2	1139.6	1089.0	1049.4	1020.8	1009.8	1003.2	1018.6
150	1339.8	1280.4	1225.4	1179.2	1137.4	1108.8	1082.4	1075.8	1071.4	1084.6
155	1328.8	1284.8	1247.4	1210.0	1183.6	1159.4	1141.8	1137.4	1133.0	1144.0
160	1317.8	1287.0	1260.6	1238.6	1218.8	1201.2	1194.6	1190.2	1188.0	1199.0
165	1304.6	1289.2	1276.0	1260.6	1247.4	1243.0	1238.6	1236.4	1234.2	1240.8
170	1298.0	1289.2	1282.6	1280.4	1276.0	1276.0	1273.8	1271.6	1271.6	1276.0
175	1298.0	1295.8	1295.8	1295.8	1293.6	1293.6	1293.6	1291.4	1291.4	1293.6
180	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8
5	1375.0	1344.2	1315.6	1287.0	1260.6	1236.4	1212.2	1190.2	1170.4	1152.8
10	1287.0	1229.8	1172.6	1119.8	1069.2	1027.4	990.0	954.8	921.8	893.2
15	1190.2	1106.6	1034.0	965.8	904.2	844.8	789.8	748.0	715.0	686.4
20	1071.4	976.8	891.0	814.0	737.0	686.4	640.2	594.0	554.4	528.0
25	961.4	858.0	765.6	679.8	616.0	556.6	510.4	475.2	442.2	415.8
30	847.0	745.8	649.0	576.4	508.2	459.8	418.0	382.8	360.8	341.0
35	737.0	638.0	552.2	479.6	424.6	380.6	347.6	321.2	301.4	288.2
40	629.2	534.6	464.2	402.6	356.4	321.2	294.8	277.2	261.8	250.8
45	528.0	446.6	387.2	338.8	299.2	272.8	255.2	239.8	231.0	222.2
50	435.6	374.0	321.2	283.8	257.4	235.4	220.0	211.2	202.4	198.0
55	354.2	305.8	268.4	237.6	215.6	202.4	191.4	184.8	178.2	173.8
60	283.8	248.6	220.0	198.0	180.4	169.4	162.8	156.2	149.6	147.4
65	220.0	195.8	176.0	158.4	147.4	138.6	132.0	127.6	125.4	123.2
70	165.0	147.4	132.0	121.0	114.4	110.0	105.6	101.2	99.0	96.8
75	112.2	99.0	90.2	85.8	83.6	77.0	72.6	68.2	63.8	59.4
80	61.6	55.0	55.0	50.6	46.2	41.8	37.4	35.2	35.2	37.4
85	24.2	19.8	19.8	19.8	17.6	15.4	15.4	15.4	15.4	17.6
90	2.2	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
95	83.6	72.6	72.6	79.2	81.4	77.0	79.2	72.6	68.2	59.4
100	187.0	202.4	226.6	235.4	250.8	253.0	253.0	235.4	228.8	217.8
105	297.0	321.2	356.4	402.6	455.4	492.8	512.6	503.8	495.0	466.4
110	411.4	437.8	481.8	545.6	620.4	693.0	752.4	814.0	851.4	842.6
115	521.4	552.2	605.0	671.0	759.0	871.2	979.0	1069.2	1144.0	1199.0
120	627.0	664.4	717.2	787.6	884.4	1009.8	1139.6	1254.0	1364.0	1460.8
125	723.8	761.2	814.0	893.2	994.4	1117.6	1251.8	1399.2	1533.4	1645.6
130	809.6	851.4	908.6	987.8	1086.8	1201.2	1328.8	1467.4	1603.8	1738.0
135	895.4	935.0	992.2	1067.0	1155.0	1260.6	1377.2	1504.8	1628.0	1749.0

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CANDELA TABULATION - (Cont.)

140	970.2	1009.8	1062.6	1128.6	1212.2	1304.6	1403.6	1513.6	1619.2	1724.8
145	1040.6	1075.8	1122.0	1179.2	1249.6	1326.6	1410.2	1498.2	1586.2	1672.0
150	1102.2	1135.2	1170.4	1218.8	1271.6	1335.4	1401.4	1469.6	1542.2	1606.0
155	1159.4	1183.6	1212.2	1245.2	1289.2	1335.4	1383.8	1434.4	1485.0	1533.4
160	1210.0	1221.0	1245.2	1269.4	1295.8	1328.8	1364.0	1397.0	1427.8	1463.0
165	1249.6	1260.6	1269.4	1287.0	1304.6	1322.2	1339.8	1361.8	1383.8	1403.6
170	1280.4	1287.0	1293.6	1298.0	1304.6	1315.6	1324.4	1335.4	1344.2	1355.2
175	1295.8	1300.2	1302.4	1304.6	1306.8	1309.0	1311.2	1313.4	1315.6	1317.8
180	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0

**Vert.
Angles**

Horizontal Angles

	150	155	160	165	170	175	180
0	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8	1449.8
5	1135.2	1122.0	1111.0	1102.2	1097.8	1093.4	1093.4
10	869.0	847.0	827.2	814.0	803.0	798.6	796.4
15	660.0	635.8	618.2	602.8	591.8	585.2	585.2
20	506.0	486.2	470.8	457.6	446.6	442.2	440.0
25	398.2	385.0	371.8	363.0	354.2	349.8	349.8
30	325.6	316.8	308.0	301.4	297.0	294.8	292.6
35	277.2	270.6	266.2	261.8	257.4	257.4	257.4
40	244.2	237.6	235.4	233.2	233.2	231.0	231.0
45	217.8	213.4	213.4	213.4	213.4	213.4	213.4
50	195.8	193.6	193.6	193.6	195.8	195.8	195.8
55	171.6	171.6	173.8	176.0	178.2	178.2	178.2
60	145.2	145.2	147.4	149.6	156.2	160.6	160.6
65	121.0	121.0	121.0	123.2	125.4	136.4	138.6
70	96.8	96.8	96.8	94.6	90.2	96.8	105.6
75	59.4	59.4	59.4	63.8	63.8	57.2	68.2
80	37.4	39.6	41.8	44.0	46.2	44.0	46.2
85	17.6	19.8	19.8	22.0	22.0	22.0	24.2
90	4.4	4.4	4.4	4.4	4.4	4.4	2.2
95	55.0	55.0	55.0	57.2	57.2	61.6	57.2
100	206.8	200.2	198.0	191.4	187.0	182.6	182.6
105	451.0	444.4	435.6	435.6	429.0	382.8	468.6
110	860.2	829.4	844.8	781.0	800.8	844.8	886.6
115	1247.4	1282.6	1300.2	1317.8	1377.2	1511.4	1529.0
120	1533.4	1599.4	1678.6	1753.4	1845.8	1887.6	1898.6
125	1771.0	1856.8	1969.0	2032.8	2074.6	2107.6	2123.0
130	1856.8	1964.6	2050.4	2109.8	2160.4	2195.6	2208.8
135	1861.2	1964.6	2041.6	2098.8	2151.6	2184.6	2195.6
140	1821.6	1909.6	1975.6	2032.8	2079.0	2109.8	2120.8
145	1753.4	1823.8	1883.2	1933.8	1971.2	1995.4	2004.2
150	1667.6	1724.8	1773.2	1812.8	1843.6	1861.2	1867.8
155	1579.6	1621.4	1656.6	1685.2	1707.2	1720.4	1724.8
160	1496.0	1522.4	1546.6	1566.4	1579.6	1586.2	1590.6
165	1421.2	1436.6	1452.0	1460.8	1467.4	1474.0	1476.2
170	1364.0	1370.6	1375.0	1379.4	1383.8	1386.0	1388.2
175	1320.0	1322.2	1322.2	1324.4	1326.6	1326.6	1328.8
180	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0	1298.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	540.62	N.A.	5.60
0-30	1159.09	N.A.	12.10
0-40	1883.93	N.A.	19.70
0-60	3106.93	N.A.	32.40
0-80	3594.07	N.A.	37.50
0-90	3623.31	N.A.	37.80
10-90	3485.53	N.A.	36.40
20-40	1343.31	N.A.	14.00
20-50	2030.41	N.A.	21.20
40-70	1562.53	N.A.	16.30
60-80	487.14	N.A.	5.10
70-80	147.61	N.A.	1.50
80-90	29.24	N.A.	0.30
90-110	590.49	N.A.	6.20
90-120	1544.81	N.A.	16.10
90-130	2745.35	N.A.	28.60
90-150	4804.76	N.A.	50.10
90-180	5961.74	N.A.	62.20
110-180	5371.26	N.A.	56.00
0-180	9585.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	137.78
10-20	402.84
20-30	618.47
30-40	724.84
40-50	687.10
50-60	535.90
60-70	339.53
70-80	147.61
80-90	29.24
90-100	110.25
100-110	480.23
110-120	954.32
120-130	1200.54
130-140	1139.69
140-150	919.72
150-160	650.52
160-170	381.43
170-180	125.04

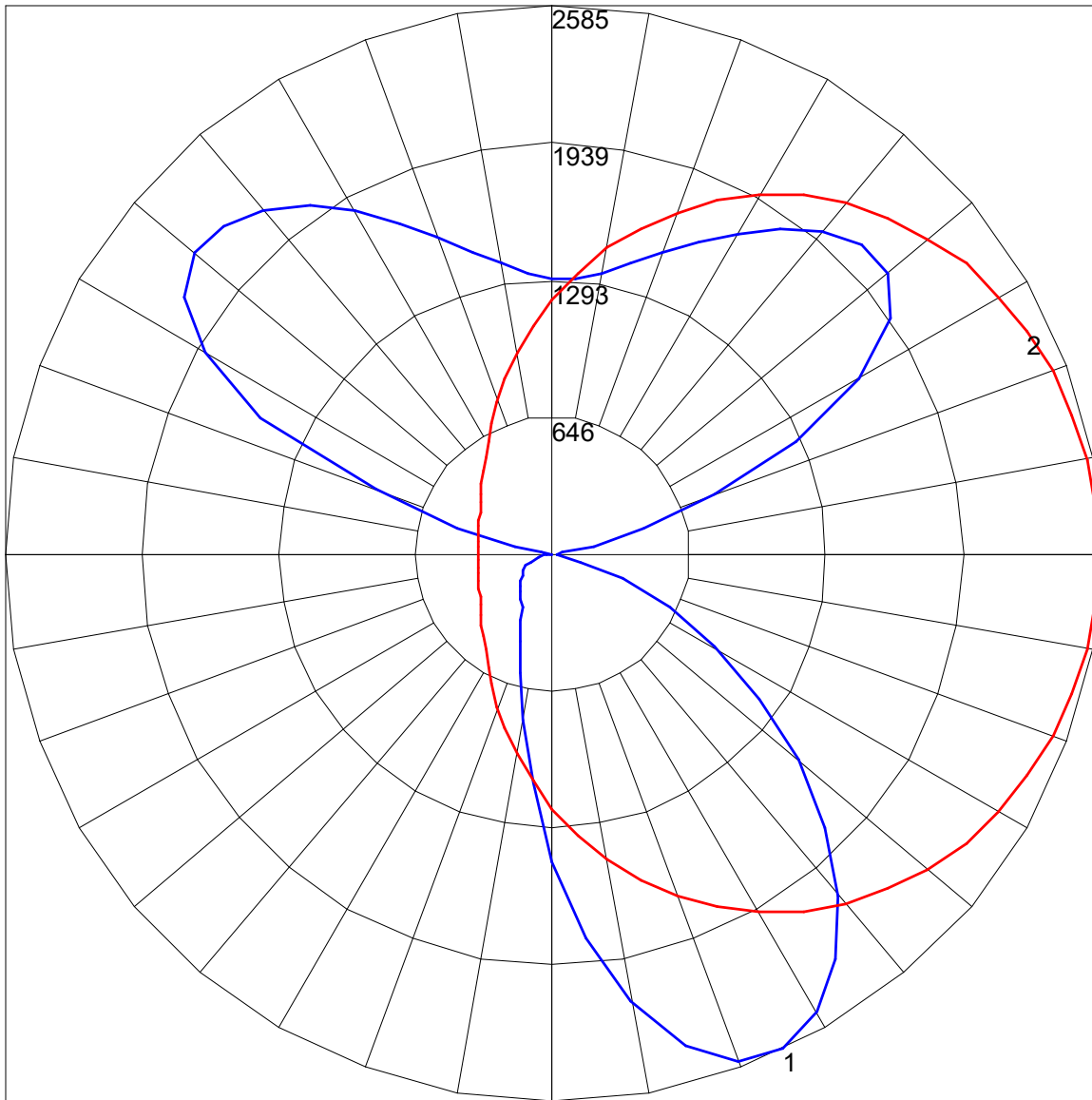
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_207_BX_HO_35_G1A1.IES

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 = 2585 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.)