

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-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	74	76	78	78
Total Lumens, 4' rail length (1219mm)	7566	7805	7965	7965
Lumens per foot (305mm)	1892	1951	1991	1991
Lumens per foot UP (305mm)	103.1	103.1	103.1	103.1
Lumens per foot DOWN (305mm)	1264	1304	1331	1331
Input Power (W), 4' rail length (1219mm)	627	647	660	660
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_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010910 (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-BL

[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, wide batwing lens up,

[MORE] 85° asymmetric 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	7950
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
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	31131	30264	23880
55	20261	19297	16477
65	10614	10796	11499
75	2616	4620	8040
85	441	510	3961

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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	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742
5	1577.466	1576.300	1575.156	1564.310	1555.752	1545.192	1532.718	1518.462	1502.490	1484.956
10	1812.052	1809.610	1799.996	1788.688	1773.992	1755.996	1734.832	1707.090	1677.082	1644.940
15	1969.154	1964.864	1953.336	1940.202	1922.426	1896.004	1867.162	1836.186	1803.384	1764.972
20	2040.346	2034.186	2023.604	2009.920	1986.622	1961.960	1934.130	1898.270	1863.246	1813.196
25	2034.076	2026.728	2019.666	2000.746	1980.704	1954.436	1923.812	1895.058	1841.796	1788.248
30	1950.718	1942.534	1934.262	1917.608	1898.534	1875.764	1850.442	1809.236	1760.198	1706.078
35	1804.660	1797.752	1787.588	1775.510	1754.456	1732.478	1707.926	1661.638	1618.122	1562.880
40	1613.612	1608.354	1598.498	1584.528	1566.730	1542.574	1507.836	1470.326	1423.642	1370.204
45	1391.940	1388.288	1379.092	1366.178	1347.346	1322.046	1287.550	1253.472	1202.586	1153.504
50	1148.158	1144.022	1137.004	1125.850	1110.142	1086.624	1056.880	1018.182	974.138	921.932
55	901.406	898.282	895.444	887.326	874.566	855.602	828.564	793.386	754.842	711.018
60	671.264	669.460	667.260	662.882	654.522	640.662	619.058	597.806	562.738	527.934
65	455.510	456.236	459.052	458.502	453.662	445.764	435.050	418.066	396.792	371.998
70	267.762	269.368	274.670	277.288	280.456	279.158	276.100	271.348	258.962	246.180
75	104.742	110.066	119.460	124.102	131.384	138.006	142.978	150.722	148.874	143.330
80	15.862	26.774	22.924	27.720	30.536	33.682	37.774	46.486	50.908	59.334
85	15.862	15.840	15.532	15.026	14.498	13.706	12.628	11.770	11.902	13.596
90	17.842	17.886	17.512	17.160	16.610	15.862	15.114	14.212	13.090	11.814
95	30.250	40.898	38.940	41.272	45.452	52.448	56.408	71.808	93.148	93.720
100	146.784	157.146	165.594	181.324	199.078	219.692	242.968	268.818	289.542	307.560
105	357.764	376.420	397.166	418.572	444.686	483.538	518.056	541.838	554.532	548.614
110	690.074	703.978	736.362	760.738	793.870	820.622	820.094	841.698	826.342	788.920
115	1101.320	1108.250	1140.436	1159.994	1173.084	1185.470	1176.582	1143.626	1094.918	1016.422
120	1522.136	1517.714	1529.154	1529.506	1530.430	1497.760	1458.226	1398.892	1293.776	1180.762
125	1846.702	1836.604	1822.084	1795.750	1771.176	1707.838	1645.006	1536.832	1425.138	1297.978
130	2018.588	2007.940	1977.294	1931.468	1880.934	1810.688	1717.672	1610.906	1487.640	1357.246
135	2054.734	2044.944	2013.924	1959.100	1894.002	1820.720	1721.368	1617.792	1498.068	1377.442
140	1991.660	1980.506	1951.356	1901.834	1836.494	1762.398	1674.970	1578.368	1475.936	1370.776
145	1867.008	1857.680	1832.358	1790.756	1732.038	1666.478	1595.088	1514.458	1429.340	1342.396
150	1712.832	1705.418	1686.256	1648.988	1605.406	1555.972	1499.322	1437.128	1372.184	1301.696
155	1553.860	1548.052	1536.326	1511.048	1479.588	1442.782	1400.938	1355.310	1306.976	1257.982
160	1407.076	1404.788	1394.558	1381.270	1360.172	1335.994	1308.494	1276.330	1241.922	1211.320
165	1280.928	1279.300	1273.184	1265.990	1256.068	1241.636	1225.510	1207.844	1188.770	1167.122
170	1184.304	1183.204	1180.190	1176.758	1172.468	1167.320	1161.358	1152.910	1143.868	1134.254
175	1121.978	1121.494	1121.032	1119.690	1118.568	1117.270	1115.796	1114.190	1112.430	1110.538
180	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600

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	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742
5	1465.992	1445.730	1424.346	1401.972	1378.784	1354.958	1330.670	1306.140	1281.478	1255.298
10	1610.906	1575.244	1539.076	1492.326	1445.488	1397.792	1349.590	1301.080	1252.900	1201.838
15	1718.002	1661.154	1603.360	1544.972	1486.276	1416.184	1345.300	1274.482	1204.962	1131.680
20	1755.710	1695.144	1633.522	1552.760	1473.076	1394.822	1305.458	1216.908	1131.570	1041.414
25	1738.638	1669.008	1589.104	1514.766	1421.508	1328.712	1233.980	1131.922	1035.122	932.690
30	1642.850	1572.978	1497.694	1410.662	1329.438	1226.368	1130.888	1018.732	915.068	811.668
35	1499.278	1434.488	1351.416	1269.158	1179.948	1085.128	986.590	878.680	771.760	678.568
40	1311.442	1240.162	1166.528	1090.738	1003.794	914.826	803.792	715.154	648.208	554.686
45	1090.452	1025.310	952.600	878.944	810.920	742.236	662.332	586.938	513.766	435.380
50	861.300	783.068	725.736	683.100	635.778	573.848	511.544	451.704	390.764	330.330
55	660.044	615.098	573.782	530.178	480.392	430.408	381.194	332.948	290.268	247.324
60	494.252	454.938	420.024	383.966	347.754	312.994	279.048	242.550	211.706	189.156

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CANDELA TABULATION - (Cont.)

65	347.292	318.626	294.514	269.698	243.980	219.604	198.044	182.754	151.580	130.878
70	228.778	212.740	200.640	185.306	164.956	149.600	134.574	119.504	105.666	92.070
75	137.698	130.306	124.410	114.114	101.728	92.840	85.118	75.020	67.122	59.994
80	61.930	61.820	59.576	57.002	52.932	47.872	44.814	40.502	35.970	32.780
85	15.268	15.048	14.058	16.016	17.534	15.994	15.708	14.608	12.914	12.584
90	10.692	9.416	8.118	7.018	5.896	4.796	4.048	3.146	3.696	2.772
95	101.200	101.750	102.894	97.526	86.526	78.166	75.636	73.788	70.444	72.314
100	303.952	288.024	260.128	227.062	197.824	180.400	170.698	167.530	164.692	166.584
105	517.946	467.016	413.798	361.878	314.732	283.250	261.646	247.368	243.980	249.480
110	724.702	645.018	564.872	491.106	427.460	384.010	358.138	343.266	339.504	342.892
115	916.938	794.244	695.046	608.124	534.798	484.000	453.178	432.762	427.658	431.574
120	1058.398	932.316	809.314	713.328	636.944	579.832	542.102	522.588	515.614	517.616
125	1157.772	1026.212	903.936	800.954	721.776	663.256	623.546	601.656	592.152	597.718
130	1222.298	1095.402	979.638	877.998	794.420	738.320	699.490	674.630	663.520	669.702
135	1254.660	1139.182	1032.020	941.468	864.424	802.736	765.732	743.732	734.514	739.640
140	1264.252	1164.812	1071.620	988.812	922.306	866.294	829.576	806.652	795.190	800.448
145	1256.398	1174.030	1096.788	1027.070	969.342	923.648	889.284	869.242	855.492	861.960
150	1235.388	1170.994	1107.920	1055.340	1005.400	971.344	939.356	924.308	912.296	918.302
155	1207.866	1159.994	1115.576	1071.598	1039.324	1010.218	987.976	975.722	965.778	970.420
160	1179.508	1145.848	1112.782	1088.450	1064.448	1040.952	1029.974	1020.316	1012.242	1016.290
165	1146.926	1130.052	1113.046	1096.062	1079.166	1070.828	1063.348	1056.110	1049.686	1052.832
170	1124.156	1113.640	1103.036	1098.108	1093.466	1089.044	1084.864	1080.860	1077.164	1079.232
175	1108.536	1106.424	1104.246	1102.002	1099.714	1097.404	1095.006	1092.718	1090.430	1091.332
180	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742
5	1229.360	1203.950	1179.134	1155.176	1132.230	1110.450	1090.012	1071.070	1053.778	1038.246
10	1151.722	1102.596	1054.856	1008.832	964.854	927.344	892.320	859.958	830.478	804.100
15	1060.312	990.396	927.058	864.754	808.918	755.832	705.804	664.070	629.002	596.244
20	954.360	873.202	794.882	722.942	653.818	598.488	547.250	498.014	453.684	424.578
25	834.724	745.382	662.442	583.858	520.124	458.018	406.098	365.948	328.108	295.504
30	713.328	623.568	535.810	465.960	397.870	347.116	301.202	262.394	235.928	209.748
35	589.424	503.910	427.350	359.854	305.580	258.368	222.266	191.972	168.762	152.548
40	470.646	394.834	331.782	274.406	230.516	194.392	164.120	143.660	125.686	114.246
45	366.740	305.316	252.890	210.452	174.086	147.114	126.522	108.878	98.758	88.946
50	278.278	232.716	192.038	160.182	134.618	113.982	98.582	88.286	79.354	73.370
55	208.956	175.802	147.312	122.694	104.280	90.486	79.948	71.786	65.648	60.830
60	157.872	132.264	112.178	95.480	82.302	72.270	65.010	58.806	53.658	49.654
65	114.642	98.318	84.568	73.326	64.482	57.464	51.370	46.662	43.318	40.612
70	81.796	70.994	61.886	54.582	48.862	43.648	39.116	35.310	32.362	30.228
75	52.888	47.036	41.778	37.312	33.308	28.886	25.322	22.814	21.318	20.108
80	29.744	27.082	22.814	19.470	16.852	14.982	13.464	12.562	12.540	12.496
85	11.770	8.602	7.194	7.106	6.314	6.072	6.072	6.182	6.116	6.006
90	2.574	2.948	2.948	2.772	3.146	3.146	3.146	3.322	3.498	3.696
95	66.022	51.128	53.790	62.678	67.122	66.220	63.448	62.920	57.618	50.974
100	170.522	174.834	180.664	188.012	206.536	197.208	188.298	189.486	194.106	184.206
105	257.400	274.230	297.924	335.896	377.014	403.326	401.786	388.036	382.008	360.382
110	355.388	376.838	411.070	459.602	525.602	596.948	659.956	695.970	718.168	728.948
115	446.270	472.032	513.678	573.804	653.158	738.782	824.164	924.616	998.954	1054.724
120	534.050	563.816	609.114	671.748	751.850	859.694	979.286	1089.616	1191.828	1287.088
125	615.186	645.634	689.326	744.172	837.166	948.926	1071.620	1205.050	1331.968	1444.718
130	688.534	718.652	762.718	822.646	911.900	1013.298	1128.204	1254.000	1382.942	1512.632
135	752.422	777.458	828.696	892.232	967.098	1057.562	1160.698	1273.140	1389.058	1505.944

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CANDELA TABULATION - (Cont.)

140	815.870	843.634	888.074	941.402	1008.810	1087.460	1174.470	1271.358	1367.586	1464.716
145	874.676	901.142	936.760	982.058	1038.334	1101.870	1174.162	1251.206	1330.010	1408.110
150	927.300	951.126	976.932	1016.136	1058.156	1110.428	1164.108	1221.308	1284.338	1341.824
155	977.460	993.212	1014.882	1039.258	1074.040	1109.482	1148.862	1191.146	1232.374	1273.360
160	1021.900	1028.104	1045.374	1062.776	1080.860	1107.260	1134.496	1159.950	1184.084	1212.354
165	1056.858	1061.302	1066.054	1078.836	1091.068	1103.256	1115.290	1130.558	1147.454	1162.260
170	1081.564	1083.984	1086.536	1089.176	1091.882	1098.658	1105.434	1112.100	1118.612	1124.904
175	1092.256	1093.290	1094.302	1095.336	1096.348	1097.382	1098.394	1099.406	1100.374	1101.320
180	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600

**Vert.
Angles**

Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742	1292.742
5	1024.628	1013.012	1003.486	996.138	991.034	988.218	987.712
10	781.154	760.144	742.918	729.630	720.412	715.308	714.406
15	567.446	542.916	522.874	506.330	494.494	487.850	486.486
20	398.772	375.364	355.850	340.890	329.494	322.784	321.244
25	274.648	256.608	241.230	228.690	219.780	213.950	212.454
30	190.234	177.870	167.046	158.048	151.382	147.180	146.058
35	136.642	127.886	120.868	114.950	110.352	107.624	106.964
40	104.456	96.734	92.400	88.440	85.448	83.688	82.984
45	83.138	77.352	74.360	71.874	69.674	68.508	68.244
50	68.596	64.900	62.172	60.412	58.960	57.992	57.904
55	56.628	54.494	52.822	51.656	50.314	49.610	49.434
60	47.124	45.056	43.406	42.482	42.548	42.328	42.416
65	38.390	36.432	35.112	33.902	32.956	33.792	33.924
70	29.282	28.622	27.654	26.796	24.904	24.178	25.454
75	19.514	19.426	19.492	19.536	19.338	16.456	17.336
80	12.342	12.430	12.430	12.518	12.738	13.068	11.440
85	5.764	5.786	5.808	5.654	5.654	6.160	5.170
90	3.696	3.322	2.948	2.948	2.948	2.772	2.552
95	48.246	48.466	48.950	47.542	46.288	49.412	46.112
100	179.718	179.014	173.756	167.970	162.756	157.410	157.498
105	362.736	362.142	357.456	358.072	353.056	314.688	385.066
110	702.592	702.042	692.670	621.170	650.892	690.250	723.998
115	1096.810	1142.152	1139.160	1164.262	1207.162	1323.190	1338.480
120	1365.056	1435.720	1510.674	1586.860	1677.148	1720.378	1737.538
125	1571.966	1655.170	1764.708	1831.082	1884.146	1925.440	1942.248
130	1628.814	1736.746	1822.480	1887.622	1947.220	1991.814	2007.522
135	1610.972	1711.160	1791.614	1861.398	1919.434	1960.618	1971.376
140	1557.072	1642.586	1713.932	1776.764	1827.232	1858.054	1868.108
145	1482.382	1549.724	1609.168	1659.284	1698.356	1723.612	1732.742
150	1397.726	1449.646	1494.592	1532.014	1561.890	1578.126	1584.836
155	1313.708	1350.910	1382.898	1408.704	1429.164	1439.416	1444.696
160	1239.128	1261.898	1281.742	1298.968	1309.726	1316.436	1320.022
165	1176.164	1189.056	1200.782	1208.592	1214.202	1218.162	1220.450
170	1130.998	1135.222	1138.918	1142.042	1144.572	1146.486	1147.784
175	1102.222	1103.080	1103.894	1104.642	1105.324	1105.940	1106.468
180	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600	1095.600

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	462.95	N.A.	5.80
0-30	957.73	N.A.	12.00
0-40	1501.29	N.A.	18.90
0-60	2331.62	N.A.	29.30
0-80	2620.89	N.A.	33.00
0-90	2637.11	N.A.	33.20
10-90	2515.7	N.A.	31.60
20-40	1038.34	N.A.	13.10
20-50	1519.3	N.A.	19.10
40-70	1036.59	N.A.	13.00
60-80	289.27	N.A.	3.60
70-80	83.01	N.A.	1.00
80-90	16.22	N.A.	0.20
90-110	504.77	N.A.	6.30
90-120	1358.32	N.A.	17.10
90-130	2452.2	N.A.	30.80
90-150	4309.85	N.A.	54.20
90-180	5313.02	N.A.	66.80
110-180	4808.25	N.A.	60.50
0-180	7950.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	121.41
10-20	341.55
20-30	494.77
30-40	543.57
40-50	480.96
50-60	349.37
60-70	206.26
70-80	83.01
80-90	16.22
90-100	91.56
100-110	413.21
110-120	853.55
120-130	1093.88
130-140	1035.14
140-150	822.51
150-160	569.67
160-170	327.55
170-180	105.95

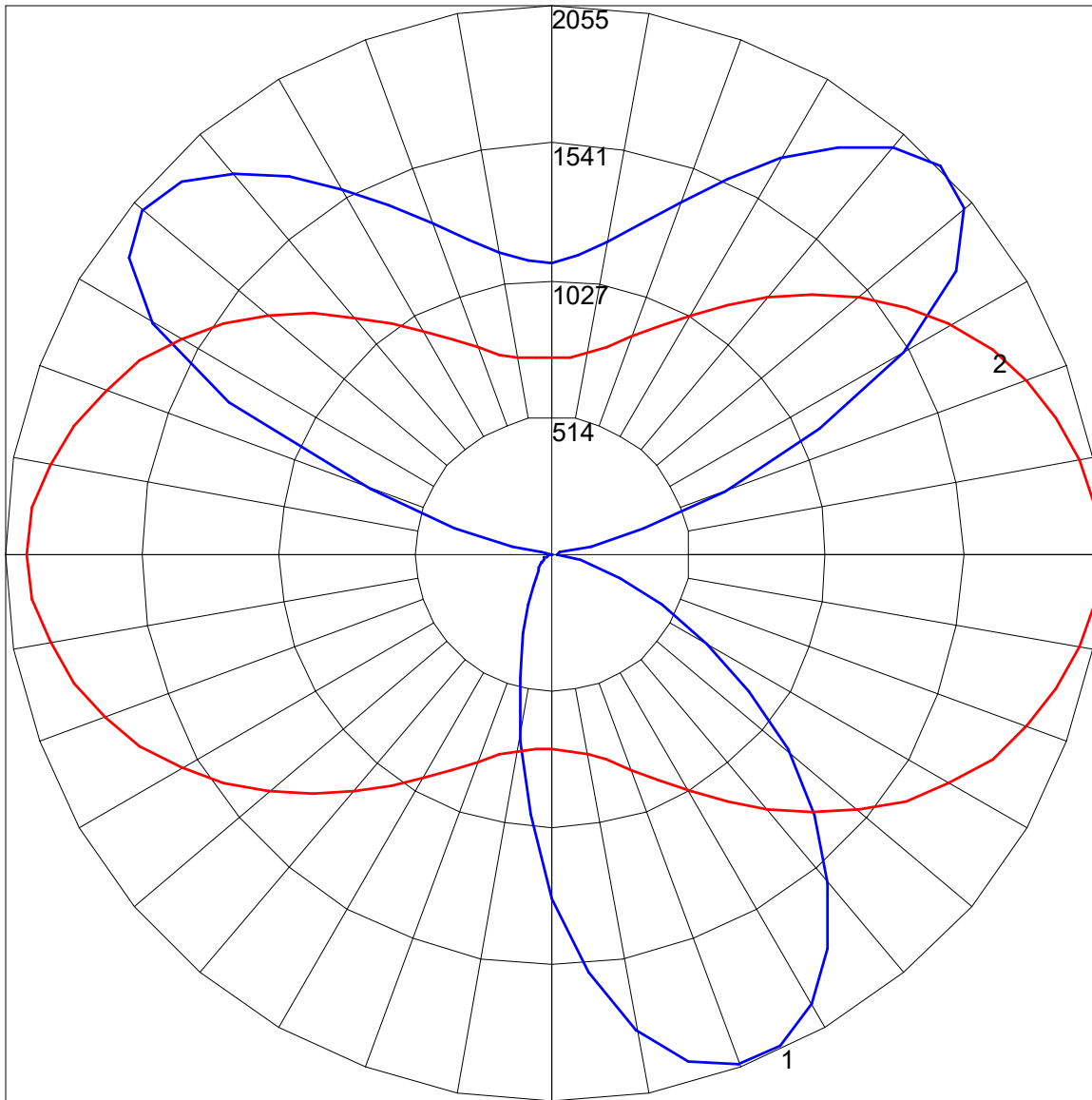
IES INDOOR REPORT
 PHOTOMETRIC FILENAME : VODE_207_BX_HO_35_G1A1_BL.IES

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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33
1	95	91	87	84	85	82	79	76	66	64	62	51	49	48	37	36	35	29
2	86	80	74	69	78	72	67	63	58	55	52	45	43	41	33	32	31	25
3	79	70	63	58	71	64	58	53	51	47	44	40	37	35	30	28	26	22
4	73	62	55	49	65	57	50	45	46	41	38	36	33	30	27	25	23	19
5	67	56	48	42	60	51	44	39	41	36	33	32	29	27	24	22	20	17
6	61	50	42	37	55	46	39	34	37	32	29	29	26	23	22	20	18	15
7	57	45	38	32	51	41	35	30	34	29	25	27	23	21	20	18	16	13
8	53	41	34	29	48	38	31	27	31	26	23	25	21	19	19	16	15	12
9	49	37	30	25	44	34	28	24	28	24	20	23	19	17	17	15	13	11
10	46	34	27	23	41	31	25	21	26	21	18	21	18	15	16	14	12	10

POLAR GRAPH



Maximum Candela = 2054.734 Located At Horizontal Angle = 0, Vertical Angle = 135
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (135) (Through Max. Cd.)