

## 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-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	64	66	67	68
Total Lumens, 4' rail length (1219mm)	6523	6729	6866	6935
Lumens per foot (305mm)	1631	1682	1717	1734
Lumens per foot UP (305mm)	103.1	103.1	103.1	103.1
Lumens per foot DOWN (305mm)	1090	1124	1147	1159
Input Power (W), 4' rail length (1219mm)	541	558	569	575
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\_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-359-G1A1-BL

[LUMINAIRE] BoxRail LED, 48", 3500K, 90 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	6866
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
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	26886	26137	20623
55	17498	16666	14230
65	9167	9323	9931
75	2259	3990	6944
85	381	441	3421

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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>
<b>0</b>	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459
<b>5</b>	1362.357	1361.350	1360.362	1350.995	1343.604	1334.484	1323.711	1311.399	1297.605	1282.462
<b>10</b>	1564.954	1562.845	1554.542	1544.776	1532.084	1516.542	1498.264	1474.305	1448.389	1420.630
<b>15</b>	1700.633	1696.928	1686.972	1675.629	1660.277	1637.458	1612.549	1585.797	1557.468	1524.294
<b>20</b>	1762.117	1756.797	1747.658	1735.840	1715.719	1694.420	1670.385	1639.415	1609.167	1565.942
<b>25</b>	1756.702	1750.356	1744.257	1727.917	1710.608	1687.922	1661.474	1636.641	1590.642	1544.396
<b>30</b>	1684.711	1677.643	1670.499	1656.116	1639.643	1619.978	1598.109	1562.522	1520.171	1473.431
<b>35</b>	1558.570	1552.604	1543.826	1533.395	1515.212	1496.231	1475.027	1435.051	1397.469	1349.760
<b>40</b>	1393.574	1389.033	1380.521	1368.456	1353.085	1332.223	1302.222	1269.827	1229.509	1183.358
<b>45</b>	1202.130	1198.976	1191.034	1179.881	1163.617	1141.767	1111.975	1082.544	1038.597	996.208
<b>50</b>	991.591	988.019	981.958	972.325	958.759	938.448	912.760	879.339	841.301	796.214
<b>55</b>	778.487	775.789	773.338	766.327	755.307	738.929	715.578	685.197	651.909	614.061
<b>60</b>	579.728	578.170	576.270	572.489	565.269	553.299	534.641	516.287	486.001	455.943
<b>65</b>	393.395	394.022	396.454	395.979	391.799	384.978	375.725	361.057	342.684	321.271
<b>70</b>	231.249	232.636	237.215	239.476	242.212	241.091	238.450	234.346	223.649	212.610
<b>75</b>	90.459	95.057	103.170	107.179	113.468	119.187	123.481	130.169	128.573	123.785
<b>80</b>	13.699	23.123	19.798	23.940	26.372	29.089	32.623	40.147	43.966	51.243
<b>85</b>	13.699	13.680	13.414	12.977	12.521	11.837	10.906	10.165	10.279	11.742
<b>90</b>	15.409	15.447	15.124	14.820	14.345	13.699	13.053	12.274	11.305	10.203
<b>95</b>	26.125	35.321	33.630	35.644	39.254	45.296	48.716	62.016	80.446	80.940
<b>100</b>	126.768	135.717	143.013	156.598	171.931	189.734	209.836	232.161	250.059	265.620
<b>105</b>	308.978	325.090	343.007	361.494	384.047	417.601	447.412	467.951	478.914	473.803
<b>110</b>	595.973	607.981	635.949	657.001	685.615	708.719	708.263	726.921	713.659	681.340
<b>115</b>	951.140	957.125	984.922	1001.813	1013.118	1023.815	1016.139	987.677	945.611	877.819
<b>120</b>	1314.572	1310.753	1320.633	1320.937	1321.735	1293.520	1259.377	1208.134	1117.352	1019.749
<b>125</b>	1594.879	1586.158	1573.618	1550.875	1529.652	1474.951	1420.687	1327.264	1230.801	1120.981
<b>130</b>	1743.326	1734.130	1707.663	1668.086	1624.443	1563.776	1483.444	1391.237	1284.780	1172.167
<b>135</b>	1774.543	1766.088	1739.298	1691.950	1635.729	1572.440	1486.636	1397.184	1293.786	1189.609
<b>140</b>	1720.070	1710.437	1685.262	1642.493	1586.063	1522.071	1446.565	1363.136	1274.672	1183.852
<b>145</b>	1612.416	1604.360	1582.491	1546.562	1495.851	1439.231	1377.576	1307.941	1234.430	1159.342
<b>150</b>	1479.264	1472.861	1456.312	1424.126	1386.487	1343.794	1294.869	1241.156	1185.068	1124.192
<b>155</b>	1341.970	1336.954	1326.827	1304.996	1277.826	1246.039	1209.901	1170.495	1128.752	1086.439
<b>160</b>	1215.202	1213.226	1204.391	1192.915	1174.694	1153.813	1130.063	1102.285	1072.569	1046.140
<b>165</b>	1106.256	1104.850	1099.568	1093.355	1084.786	1072.322	1058.395	1043.138	1026.665	1007.969
<b>170</b>	1022.808	1021.858	1019.255	1016.291	1012.586	1008.140	1002.991	995.695	987.886	979.583
<b>175</b>	968.981	968.563	968.164	967.005	966.036	964.915	963.642	962.255	960.735	959.101
<b>180</b>	946.200	946.200	946.200	946.200	946.200	946.200	946.200	946.200	946.200	946.200

**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>
<b>0</b>	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459
<b>5</b>	1266.084	1248.585	1230.117	1210.794	1190.768	1170.191	1149.215	1128.030	1106.731	1084.121
<b>10</b>	1391.237	1360.438	1329.202	1288.827	1248.376	1207.184	1165.555	1123.660	1082.050	1037.951
<b>15</b>	1483.729	1434.633	1384.720	1334.294	1283.602	1223.068	1161.850	1100.689	1040.649	977.360
<b>20</b>	1516.295	1463.988	1410.769	1341.020	1272.202	1204.619	1127.441	1050.966	977.265	899.403
<b>25</b>	1501.551	1441.416	1372.408	1308.207	1227.666	1147.524	1065.710	977.569	893.969	805.505
<b>30</b>	1418.825	1358.481	1293.463	1218.299	1148.151	1059.136	976.676	879.814	790.286	700.986
<b>35</b>	1294.831	1238.876	1167.132	1096.091	1019.046	937.156	852.055	758.860	666.520	586.036
<b>40</b>	1132.609	1071.049	1007.456	942.001	866.913	790.077	694.184	617.633	559.816	479.047
<b>45</b>	941.754	885.495	822.700	759.088	700.340	641.022	572.014	506.901	443.707	376.010
<b>50</b>	743.850	676.286	626.772	589.950	549.081	495.596	441.788	390.108	337.478	285.285
<b>55</b>	570.038	531.221	495.539	457.881	414.884	371.716	329.213	287.546	250.686	213.598
<b>60</b>	426.854	392.901	362.748	331.607	300.333	270.313	240.996	209.475	182.837	163.362

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	299.934	275.177	254.353	232.921	210.710	189.658	171.038	157.833	130.910	113.031
<b>70</b>	197.581	183.730	173.280	160.037	142.462	129.200	116.223	103.208	91.257	79.515
<b>75</b>	118.921	112.537	107.445	98.553	87.856	80.180	73.511	64.790	57.969	51.813
<b>80</b>	53.485	53.390	51.452	49.229	45.714	41.344	38.703	34.979	31.065	28.310
<b>85</b>	13.186	12.996	12.141	13.832	15.143	13.813	13.566	12.616	11.153	10.868
<b>90</b>	9.234	8.132	7.011	6.061	5.092	4.142	3.496	2.717	3.192	2.394
<b>95</b>	87.400	87.875	88.863	84.227	74.727	67.507	65.322	63.726	60.838	62.453
<b>100</b>	262.504	248.748	224.656	196.099	170.848	155.800	147.421	144.685	142.234	143.868
<b>105</b>	447.317	403.332	357.371	312.531	271.814	244.625	225.967	213.636	210.710	215.460
<b>110</b>	625.879	557.061	487.844	424.137	369.170	331.645	309.301	296.457	293.208	296.134
<b>115</b>	791.901	685.938	600.267	525.198	461.871	418.000	391.381	373.749	369.341	372.723
<b>120</b>	914.071	805.182	698.953	616.056	550.088	500.764	468.179	451.326	445.303	447.032
<b>125</b>	999.894	886.274	780.672	691.733	623.352	572.812	538.517	519.612	511.404	516.211
<b>130</b>	1055.621	946.029	846.051	758.271	686.090	637.640	604.105	582.635	573.040	578.379
<b>135</b>	1083.570	983.839	891.290	813.086	746.548	693.272	661.314	642.314	634.353	638.780
<b>140</b>	1091.854	1005.974	925.490	853.974	796.537	748.163	716.452	696.654	686.755	691.296
<b>145</b>	1085.071	1013.935	947.226	887.015	837.159	797.696	768.018	750.709	738.834	744.420
<b>150</b>	1066.926	1011.313	956.840	911.430	868.300	838.888	811.262	798.266	787.892	793.079
<b>155</b>	1043.157	1001.813	963.452	925.471	897.598	872.461	853.252	842.669	834.081	838.090
<b>160</b>	1018.666	989.596	961.039	940.025	919.296	899.004	889.523	881.182	874.209	877.705
<b>165</b>	990.527	975.954	961.267	946.599	932.007	924.806	918.346	912.095	906.547	909.264
<b>170</b>	970.862	961.780	952.622	948.366	944.357	940.538	936.928	933.470	930.278	932.064
<b>175</b>	957.372	955.548	953.667	951.729	949.753	947.758	945.687	943.711	941.735	942.514
<b>180</b>	946.200	946.200	946.200	946.200	946.200	946.200	946.200	946.200	946.200	946.200

**Vert.  
Angles**

**Horizontal Angles**

	<b>100</b>	<b>105</b>	<b>110</b>	<b>115</b>	<b>120</b>	<b>125</b>	<b>130</b>	<b>135</b>	<b>140</b>	<b>145</b>
<b>0</b>	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459
<b>5</b>	1061.720	1039.775	1018.343	997.652	977.835	959.025	941.374	925.015	910.081	896.667
<b>10</b>	994.669	952.242	911.012	871.264	833.283	800.888	770.640	742.691	717.231	694.450
<b>15</b>	915.724	855.342	800.641	746.833	698.611	652.764	609.558	573.515	543.229	514.938
<b>20</b>	824.220	754.129	686.489	624.359	564.661	516.876	472.625	430.103	391.818	366.681
<b>25</b>	720.898	643.739	572.109	504.241	449.198	395.561	350.721	316.046	283.366	255.208
<b>30</b>	616.056	538.536	462.745	402.420	343.615	299.782	260.129	226.613	203.756	181.146
<b>35</b>	509.048	435.195	369.075	310.783	263.910	223.136	191.957	165.794	145.749	131.746
<b>40</b>	406.467	340.993	286.539	236.987	199.082	167.884	141.740	124.070	108.547	98.667
<b>45</b>	316.730	263.682	218.405	181.754	150.347	127.053	109.269	94.031	85.291	76.817
<b>50</b>	240.331	200.982	165.851	138.339	116.261	98.439	85.139	76.247	68.533	63.365
<b>55</b>	180.462	151.829	127.224	105.963	90.060	78.147	69.046	61.997	56.696	52.535
<b>60</b>	136.344	114.228	96.881	82.460	71.079	62.415	56.145	50.787	46.341	42.883
<b>65</b>	99.009	84.911	73.036	63.327	55.689	49.628	44.365	40.299	37.411	35.074
<b>70</b>	70.642	61.313	53.447	47.139	42.199	37.696	33.782	30.495	27.949	26.106
<b>75</b>	45.676	40.622	36.081	32.224	28.766	24.947	21.869	19.703	18.411	17.366
<b>80</b>	25.688	23.389	19.703	16.815	14.554	12.939	11.628	10.849	10.830	10.792
<b>85</b>	10.165	7.429	6.213	6.137	5.453	5.244	5.244	5.339	5.282	5.187
<b>90</b>	2.223	2.546	2.546	2.394	2.717	2.717	2.717	2.869	3.021	3.192
<b>95</b>	57.019	44.156	46.455	54.131	57.969	57.190	54.796	54.340	49.761	44.023
<b>100</b>	147.269	150.993	156.028	162.374	178.372	170.316	162.621	163.647	167.637	159.087
<b>105</b>	222.300	236.835	257.298	290.092	325.603	348.327	346.997	335.122	329.916	311.239
<b>110</b>	306.926	325.451	355.015	396.929	453.929	515.546	569.962	601.065	620.236	629.546
<b>115</b>	385.415	407.664	443.631	495.558	564.091	638.039	711.778	798.532	862.733	910.898
<b>120</b>	461.225	486.932	526.053	580.146	649.325	742.463	845.747	941.032	1029.306	1111.576
<b>125</b>	531.297	557.593	595.327	642.694	723.007	819.527	925.490	1040.725	1150.336	1247.711
<b>130</b>	594.643	620.654	658.711	710.467	787.550	875.121	974.358	1083.000	1194.359	1306.364
<b>135</b>	649.819	671.441	715.692	770.564	835.221	913.349	1002.421	1099.530	1199.641	1300.588

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**CANDELA TABULATION - (Cont.)**

<b>140</b>	704.615	728.593	766.973	813.029	871.245	939.170	1014.315	1097.991	1181.097	1264.982
<b>145</b>	755.402	778.259	809.020	848.141	896.743	951.615	1014.049	1080.587	1148.645	1216.095
<b>150</b>	800.850	821.427	843.714	877.572	913.862	959.006	1005.366	1054.766	1109.201	1158.848
<b>155</b>	844.170	857.774	876.489	897.541	927.580	958.189	992.199	1028.717	1064.323	1099.720
<b>160</b>	882.550	887.908	902.823	917.852	933.470	956.270	979.792	1001.775	1022.618	1047.033
<b>165</b>	912.741	916.579	920.683	931.722	942.286	952.812	963.205	976.391	990.983	1003.770
<b>170</b>	934.078	936.168	938.372	940.652	942.989	948.841	954.693	960.450	966.074	971.508
<b>175</b>	943.312	944.205	945.079	945.972	946.846	947.739	948.613	949.487	950.323	951.140
<b>180</b>	946.200	946.200	946.200	946.200	946.200	946.200	946.200	946.200	946.200	946.200

**Vert. Horizontal Angles**  
**Angles**

	<b>150</b>	<b>155</b>	<b>160</b>	<b>165</b>	<b>170</b>	<b>175</b>	<b>180</b>
<b>0</b>	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459	1116.459
<b>5</b>	884.906	874.874	866.647	860.301	855.893	853.461	853.024
<b>10</b>	674.633	656.488	641.611	630.135	622.174	617.766	616.987
<b>15</b>	490.067	468.882	451.573	437.285	427.063	421.325	420.147
<b>20</b>	344.394	324.178	307.325	294.405	284.563	278.768	277.438
<b>25</b>	237.196	221.616	208.335	197.505	189.810	184.775	183.483
<b>30</b>	164.293	153.615	144.267	136.496	130.739	127.110	126.141
<b>35</b>	118.009	110.447	104.386	99.275	95.304	92.948	92.378
<b>40</b>	90.212	83.543	79.800	76.380	73.796	72.276	71.668
<b>45</b>	71.801	66.804	64.220	62.073	60.173	59.166	58.938
<b>50</b>	59.242	56.050	53.694	52.174	50.920	50.084	50.008
<b>55</b>	48.906	47.063	45.619	44.612	43.453	42.845	42.693
<b>60</b>	40.698	38.912	37.487	36.689	36.746	36.556	36.632
<b>65</b>	33.155	31.464	30.324	29.279	28.462	29.184	29.298
<b>70</b>	25.289	24.719	23.883	23.142	21.508	20.881	21.983
<b>75</b>	16.853	16.777	16.834	16.872	16.701	14.212	14.972
<b>80</b>	10.659	10.735	10.735	10.811	11.001	11.286	9.880
<b>85</b>	4.978	4.997	5.016	4.883	4.883	5.320	4.465
<b>90</b>	3.192	2.869	2.546	2.546	2.546	2.394	2.204
<b>95</b>	41.667	41.857	42.275	41.059	39.976	42.674	39.824
<b>100</b>	155.211	154.603	150.062	145.065	140.562	135.945	136.021
<b>105</b>	313.272	312.759	308.712	309.244	304.912	271.776	332.557
<b>110</b>	606.784	606.309	598.215	536.465	562.134	596.125	625.271
<b>115</b>	947.245	986.404	983.820	1005.499	1042.549	1142.755	1155.960
<b>120</b>	1178.912	1239.940	1304.673	1370.470	1448.446	1485.781	1500.601
<b>125</b>	1357.607	1429.465	1524.066	1581.389	1627.217	1662.880	1677.396
<b>130</b>	1406.703	1499.917	1573.960	1630.219	1681.690	1720.203	1733.769
<b>135</b>	1391.294	1477.820	1547.303	1607.571	1657.693	1693.261	1702.552
<b>140</b>	1344.744	1418.597	1480.214	1534.478	1578.064	1604.683	1613.366
<b>145</b>	1280.239	1338.398	1389.736	1433.018	1466.762	1488.574	1496.459
<b>150</b>	1207.127	1251.967	1290.784	1323.103	1348.905	1362.927	1368.722
<b>155</b>	1134.566	1166.695	1194.321	1216.608	1234.278	1243.132	1247.692
<b>160</b>	1070.156	1089.821	1106.959	1121.836	1131.127	1136.922	1140.019
<b>165</b>	1015.778	1026.912	1037.039	1043.784	1048.629	1052.049	1054.025
<b>170</b>	976.771	980.419	983.611	986.309	988.494	990.147	991.268
<b>175</b>	951.919	952.660	953.363	954.009	954.598	955.130	955.586
<b>180</b>	946.200	946.200	946.200	946.200	946.200	946.200	946.200

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_207\_BX\_HO\_359\_G1A1\_BL.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	399.82	N.A.	5.80
0-30	827.13	N.A.	12.00
0-40	1296.57	N.A.	18.90
0-60	2013.67	N.A.	29.30
0-80	2263.5	N.A.	33.00
0-90	2277.5	N.A.	33.20
10-90	2172.65	N.A.	31.60
20-40	896.75	N.A.	13.10
20-50	1312.12	N.A.	19.10
40-70	895.24	N.A.	13.00
60-80	249.82	N.A.	3.60
70-80	71.69	N.A.	1.00
80-90	14.00	N.A.	0.20
90-110	435.94	N.A.	6.30
90-120	1173.1	N.A.	17.10
90-130	2117.81	N.A.	30.80
90-150	3722.14	N.A.	54.20
90-180	4588.52	N.A.	66.80
110-180	4152.58	N.A.	60.50
0-180	6866.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	104.85
10-20	294.97
20-30	427.31
30-40	469.44
40-50	415.37
50-60	301.73
60-70	178.13
70-80	71.69
80-90	14.00
90-100	79.08
100-110	356.86
110-120	737.16
120-130	944.71
130-140	893.99
140-150	710.35
150-160	491.99
160-170	282.88
170-180	91.50

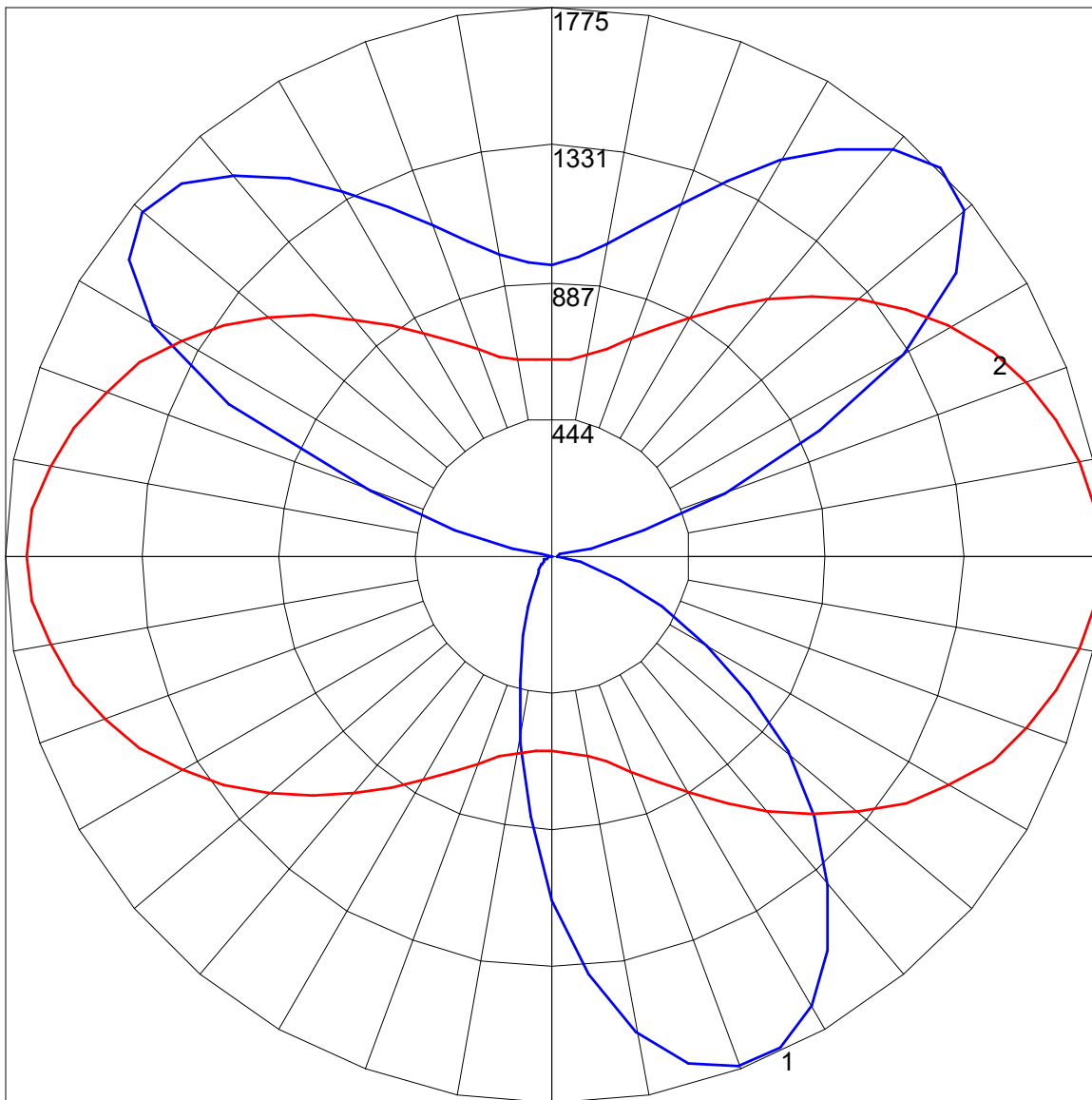
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_207\_BX\_HO\_359\_G1A1\_BL.IES**

**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 = 1774.543 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.)