

IES Report

DoubleBox™ | 107 | Wide Batwing, up | 85° Asymmetric, down | 80 CRI | HO

107-DB-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	92	95	97	97
Total Lumens, 4' rail length (1219mm)	8951	9234	9422	9422
Lumens per foot (305mm)	2238	2308	2356	2356
Lumens per foot UP (305mm)	1411	1456	1485	1485
Lumens per foot DOWN (305mm)	827	853	870	870
Input Power (W), 4' rail length (1219mm)	98.1	98.1	98.1	98.1
Watts per foot (305mm)	24.6	24.6	24.6	24.6
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_107_DB_HO_35_G1A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911511 (SOURCE REPORTS FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 3/18/2020

[MANUFAC] Vode Lighting

[LUMCAT] 107-DB-48-Z-HO-35-G1A1-AL

[LUMINAIRE] DoubleBox 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	9406
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	98.12
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)	0.07 ft
Luminous Width (90-270)	3.84 ft
Luminous Height	0.21 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	24629	25513	35506
55	15422	15817	27513
65	7680	8611	21421
75	2033	3445	15578
85	10	20	7295

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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	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958
5	1863.312	1859.616	1857.768	1852.620	1846.526	1839.156	1829.388	1820.522	1806.332	1792.120
10	2168.694	2164.096	2159.300	2148.586	2135.496	2116.884	2094.928	2070.772	2040.170	2007.698
15	2359.742	2355.518	2349.600	2336.708	2318.448	2297.042	2269.388	2237.114	2197.272	2152.656
20	2434.630	2433.706	2425.764	2413.224	2395.162	2371.182	2342.604	2306.084	2262.568	2212.782
25	2412.850	2409.902	2402.356	2390.542	2372.282	2349.050	2318.448	2280.828	2233.792	2182.334
30	2320.648	2317.700	2310.132	2297.240	2277.506	2251.678	2219.052	2179.210	2128.676	2071.872
35	2175.338	2172.016	2163.722	2149.334	2126.828	2097.700	2060.630	2013.792	1959.210	1897.434
40	1980.220	1977.470	1968.230	1952.192	1927.486	1895.586	1852.972	1800.414	1741.586	1674.838
45	1741.234	1737.714	1729.618	1713.756	1688.302	1654.378	1610.290	1555.708	1494.306	1424.962
50	1464.606	1462.208	1455.564	1441.550	1420.166	1385.494	1343.452	1292.742	1234.266	1172.864
55	1168.442	1166.594	1161.622	1152.030	1134.870	1108.140	1072.742	1028.104	978.120	926.310
60	872.278	871.728	870.056	864.908	854.018	836.308	811.228	778.778	741.708	704.088
65	603.042	603.394	604.318	603.944	600.072	591.976	578.314	558.954	535.898	512.292
70	362.560	363.660	366.608	370.304	373.626	374.176	371.602	364.958	355.542	344.124
75	160.446	161.722	166.342	172.788	180.906	189.574	196.394	200.816	202.664	201.938
80	24.354	24.904	26.554	30.052	35.046	42.240	51.634	62.876	73.942	82.984
85	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	1.100
90	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736
95	49.984	61.490	58.014	59.334	61.336	64.702	66.374	79.706	87.318	93.192
100	193.072	202.642	207.416	217.294	230.010	243.562	259.182	272.382	290.026	291.566
105	463.430	431.662	461.956	474.056	487.872	510.444	527.560	541.992	555.654	552.156
110	863.984	835.560	838.420	856.680	886.204	887.788	918.522	895.884	873.224	818.994
115	1381.996	1376.320	1327.568	1302.466	1290.674	1283.502	1248.302	1198.912	1136.234	1058.640
120	1758.746	1747.746	1723.524	1677.962	1636.118	1577.576	1515.426	1444.894	1336.324	1222.650
125	2003.826	1991.022	1961.300	1923.746	1876.798	1788.226	1708.300	1592.492	1476.420	1345.718
130	2108.590	2097.282	2064.876	2015.838	1956.108	1876.600	1775.598	1666.016	1540.682	1411.828
135	2107.468	2097.942	2067.648	2019.974	1954.040	1877.634	1781.054	1680.932	1565.190	1449.602
140	2039.246	2029.522	2002.044	1959.320	1902.538	1831.962	1748.582	1657.810	1560.746	1460.998
145	1931.534	1922.866	1900.910	1866.964	1818.850	1760.286	1691.998	1614.448	1533.994	1451.912
150	1806.134	1798.302	1782.242	1754.566	1717.650	1671.010	1616.186	1556.720	1496.000	1429.978
155	1675.938	1670.240	1659.614	1638.450	1611.742	1577.576	1537.382	1494.218	1449.382	1404.018
160	1553.486	1550.472	1541.760	1529.814	1510.806	1489.136	1464.232	1434.290	1402.874	1374.736
165	1448.568	1446.346	1440.846	1434.356	1425.556	1412.422	1397.836	1381.886	1364.704	1344.816
170	1370.182	1368.972	1366.310	1363.340	1359.666	1355.354	1350.404	1342.572	1334.454	1325.984
175	1323.168	1322.596	1322.134	1320.748	1319.714	1318.592	1317.382	1316.084	1314.720	1313.290
180	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800

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	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958
5	1777.556	1759.296	1736.064	1711.534	1686.652	1660.274	1632.598	1603.844	1574.144	1537.448
10	1972.124	1929.136	1881.198	1829.938	1777.380	1720.752	1662.298	1600.896	1539.296	1480.468
15	2103.420	2044.592	1977.646	1905.178	1829.190	1747.306	1661.924	1571.944	1482.118	1392.688
20	2155.978	2088.108	2010.294	1923.240	1831.038	1728.694	1620.806	1508.122	1395.636	1281.302
25	2120.206	2047.364	1963.082	1868.108	1766.688	1649.934	1528.978	1401.180	1273.558	1153.680
30	2006.972	1930.984	1843.952	1746.030	1640.716	1520.486	1394.712	1260.842	1128.424	1003.574
35	1828.816	1750.452	1662.848	1566.774	1463.506	1346.774	1224.498	1096.150	968.726	848.298
40	1603.294	1525.106	1440.076	1349.722	1255.122	1148.708	1039.346	926.684	808.830	702.988
45	1355.068	1279.652	1203.114	1121.230	1038.994	948.244	850.872	746.130	661.870	573.892
50	1104.642	1041.194	974.996	907.126	838.904	765.314	689.700	612.062	535.172	460.108
55	872.454	821.194	769.186	715.902	665.544	609.312	546.414	485.562	425.260	365.508
60	667.392	629.948	591.404	552.684	513.590	471.174	425.084	379.148	331.936	286.396

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CANDELA TABULATION - (Cont.)

65	487.410	462.132	437.426	411.972	384.494	353.892	320.694	286.946	252.824	218.724
70	331.760	318.120	303.908	288.244	270.358	250.624	229.218	206.184	182.930	160.820
75	199.540	195.118	189.398	182.204	172.986	161.722	149.380	135.542	121.352	108.262
80	89.452	93.126	94.226	93.500	91.102	86.680	81.334	75.064	68.046	61.776
85	3.498	9.218	18.084	24.706	28.028	28.952	28.578	27.478	25.828	24.706
90	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736
95	94.578	117.018	114.290	91.718	85.316	85.888	84.194	81.070	82.808	81.070
100	291.104	289.894	268.488	239.162	219.186	201.498	185.658	179.608	180.356	179.608
105	536.998	495.242	446.864	389.818	347.116	315.414	292.666	281.138	279.378	281.138
110	743.710	676.148	602.316	526.526	469.546	431.244	403.568	389.576	388.938	389.576
115	956.274	843.106	741.532	654.302	587.928	542.498	511.192	494.494	493.130	494.494
120	1100.968	972.004	860.288	770.726	698.786	649.682	619.696	600.358	592.526	600.358
125	1207.008	1078.990	965.602	871.772	796.620	745.052	714.054	695.310	686.026	695.310
130	1283.612	1163.822	1056.660	964.370	889.724	833.690	795.938	772.002	754.072	772.002
135	1333.046	1225.070	1125.674	1043.108	974.534	922.482	888.096	866.712	857.890	866.712
140	1360.480	1268.784	1182.764	1106.380	1046.650	997.568	964.788	944.812	935.528	944.812
145	1371.282	1295.096	1224.014	1160.192	1107.986	1066.934	1036.156	1020.052	1010.768	1020.052
150	1367.982	1308.318	1250.524	1202.938	1158.190	1128.160	1100.616	1089.264	1081.586	1089.264
155	1357.576	1313.136	1272.458	1232.836	1204.302	1179.068	1160.236	1150.446	1143.362	1150.446
160	1345.014	1313.598	1283.238	1261.524	1240.580	1220.428	1211.606	1204.126	1198.494	1204.126
165	1326.358	1311.222	1296.064	1281.016	1266.166	1259.412	1253.780	1248.654	1244.606	1248.654
170	1317.250	1308.340	1299.518	1295.294	1291.422	1287.814	1284.492	1281.368	1278.728	1281.368
175	1311.816	1310.298	1308.736	1307.174	1305.612	1304.050	1302.466	1300.992	1299.562	1300.992
180	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958
5	1509.794	1477.520	1449.866	1424.588	1398.210	1374.252	1352.296	1329.988	1452.990	1440.450
10	1423.114	1365.210	1308.604	1256.772	1204.764	1178.760	1138.742	1096.898	1063.502	1031.426
15	1308.780	1225.048	1145.936	1073.468	1002.474	940.698	884.994	946.220	901.604	865.634
20	1177.484	1075.492	981.266	897.358	817.498	835.384	773.432	716.254	673.112	636.966
25	1038.994	927.784	827.464	740.608	659.824	594.550	539.418	500.500	461.956	430.232
30	886.468	776.204	679.008	596.948	523.358	465.828	422.686	382.294	351.318	327.140
35	738.584	637.340	549.186	477.994	415.492	368.456	332.684	300.960	277.552	259.842
40	605.990	518.012	443.696	384.692	334.708	297.264	268.136	246.202	229.416	216.502
45	492.558	419.540	359.238	312.202	272.558	244.904	223.322	206.360	194.370	185.526
50	392.810	335.456	289.520	253.022	223.696	202.664	187.374	177.584	168.916	162.844
55	314.424	269.434	234.564	207.086	185.702	171.864	160.622	152.504	146.982	143.286
60	247.676	213.928	187.374	168.366	154.176	143.484	135.916	135.542	131.670	129.096
65	190.872	168.190	149.182	135.366	124.850	117.480	112.860	109.736	107.690	106.590
70	142.010	125.774	113.410	104.368	97.746	93.324	90.552	88.704	87.780	87.230
75	96.998	87.604	80.410	75.416	71.742	69.718	68.596	67.870	67.672	67.870
80	56.804	52.932	49.984	48.136	47.212	46.662	46.838	47.036	47.762	48.510
85	24.354	24.354	24.706	25.080	25.828	26.928	27.654	28.028	27.852	27.654
90	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736	10.736
95	84.194	85.888	85.316	91.718	114.290	117.018	94.578	93.192	87.318	79.706
100	185.658	201.498	219.186	239.162	268.488	289.894	291.104	291.566	290.026	272.382
105	292.666	315.414	347.116	389.818	446.864	495.242	536.998	552.156	555.654	541.992
110	403.568	431.244	469.546	526.526	602.316	676.148	743.710	818.994	873.224	895.884
115	511.192	542.498	587.928	654.302	741.532	843.106	956.274	1058.640	1136.234	1198.912
120	619.696	649.682	698.786	770.726	860.288	972.004	1100.968	1222.650	1336.324	1444.894
125	714.054	745.052	796.620	871.772	965.602	1078.990	1207.008	1345.718	1476.420	1592.492
130	795.938	833.690	889.724	964.370	1056.660	1163.822	1283.612	1411.828	1540.682	1666.016
135	888.096	922.482	974.534	1043.108	1125.674	1225.070	1333.046	1449.602	1565.190	1680.932

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CANDELA TABULATION - (Cont.)

140	964.788	997.568	1046.650	1106.380	1182.764	1268.784	1360.480	1460.998	1560.746	1657.810
145	1036.156	1066.934	1107.986	1160.192	1224.014	1295.096	1371.282	1451.912	1533.994	1614.448
150	1100.616	1128.160	1158.190	1202.938	1250.524	1308.318	1367.982	1429.978	1496.000	1556.720
155	1160.236	1179.068	1204.302	1232.836	1272.458	1313.136	1357.576	1404.018	1449.382	1494.218
160	1211.606	1220.428	1240.580	1261.524	1283.238	1313.598	1345.014	1374.736	1402.874	1434.290
165	1253.780	1259.412	1266.166	1281.016	1296.064	1311.222	1326.358	1344.816	1364.704	1381.886
170	1284.492	1287.814	1291.422	1295.294	1299.518	1308.340	1317.250	1325.984	1334.454	1342.572
175	1302.466	1304.050	1305.612	1307.174	1308.736	1310.298	1311.816	1313.290	1314.720	1316.084
180	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800

Vert. Horizontal Angles
Angles

	150	155	160	165	170	175	180
0	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958	1585.958
5	1433.630	1431.782	1434.554	1441.924	1445.422	1438.976	1601.446
10	1005.796	1105.566	1096.524	1092.652	1089.704	1079.738	1223.398
15	834.460	813.252	797.038	786.896	779.328	768.812	878.922
20	608.564	588.830	570.944	558.954	550.836	541.244	615.934
25	404.778	385.418	417.318	406.626	399.256	392.062	439.648
30	307.604	320.144	314.974	306.856	300.960	296.164	325.314
35	245.630	258.918	250.074	244.354	240.834	237.336	255.222
40	207.086	200.090	208.758	205.062	203.038	201.014	212.454
45	180.532	185.702	182.578	180.532	179.630	178.706	186.626
50	158.774	161.920	161.370	160.622	160.248	159.896	165.242
55	140.888	144.584	143.836	143.484	143.110	142.912	146.784
60	127.622	126.874	126.698	126.500	126.500	126.324	129.448
65	105.864	108.988	108.988	109.362	109.736	109.362	111.760
70	87.230	90.002	90.354	90.728	91.102	91.102	93.324
75	68.244	70.642	71.192	71.742	72.116	72.292	73.766
80	49.236	51.260	52.008	52.558	53.306	53.658	54.956
85	27.654	27.852	28.776	28.952	29.326	29.502	30.250
90	10.736	10.736	10.736	10.736	10.736	10.736	10.736
95	66.374	64.702	61.336	59.334	58.014	61.490	49.984
100	259.182	243.562	230.010	217.294	207.416	202.642	193.072
105	527.560	510.444	487.872	474.056	461.956	431.662	463.430
110	918.522	887.788	886.204	856.680	838.420	835.560	863.984
115	1248.302	1283.502	1290.674	1302.466	1327.568	1376.320	1381.996
120	1515.426	1577.576	1636.118	1677.962	1723.524	1747.746	1758.746
125	1708.300	1788.226	1876.798	1923.746	1961.300	1991.022	2003.826
130	1775.598	1876.600	1956.108	2015.838	2064.876	2097.282	2108.590
135	1781.054	1877.634	1954.040	2019.974	2067.648	2097.942	2107.468
140	1748.582	1831.962	1902.538	1959.320	2002.044	2029.522	2039.246
145	1691.998	1760.286	1818.850	1866.964	1900.910	1922.866	1931.534
150	1616.186	1671.010	1717.650	1754.566	1782.242	1798.302	1806.134
155	1537.382	1577.576	1611.742	1638.450	1659.614	1670.240	1675.938
160	1464.232	1489.136	1510.806	1529.814	1541.760	1550.472	1553.486
165	1397.836	1412.422	1425.556	1434.356	1440.846	1446.346	1448.568
170	1350.404	1355.354	1359.666	1363.340	1366.310	1368.972	1370.182
175	1317.382	1318.592	1319.714	1320.748	1322.134	1322.596	1323.168
180	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DB_HO_35_G1A1.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	580.76	N.A.	6.20
0-30	1198.28	N.A.	12.70
0-40	1882.59	N.A.	20.00
0-60	2998.74	N.A.	31.90
0-80	3446.26	N.A.	36.60
0-90	3475.36	N.A.	36.90
10-90	3323.62	N.A.	35.30
20-40	1301.83	N.A.	13.80
20-50	1931.19	N.A.	20.50
40-70	1425.25	N.A.	15.20
60-80	447.52	N.A.	4.80
70-80	138.42	N.A.	1.50
80-90	29.10	N.A.	0.30
90-110	594.85	N.A.	6.30
90-120	1543.6	N.A.	16.40
90-130	2726.89	N.A.	29.00
90-150	4770.53	N.A.	50.70
90-180	5930.74	N.A.	63.10
110-180	5335.89	N.A.	56.70
0-180	9406.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	151.73
10-20	429.02
20-30	617.53
30-40	684.31
40-50	629.36
50-60	486.79
60-70	309.09
70-80	138.42
80-90	29.10
90-100	111.48
100-110	483.37
110-120	948.74
120-130	1183.29
130-140	1127.03
140-150	916.61
150-160	651.71
160-170	382.81
170-180	125.69

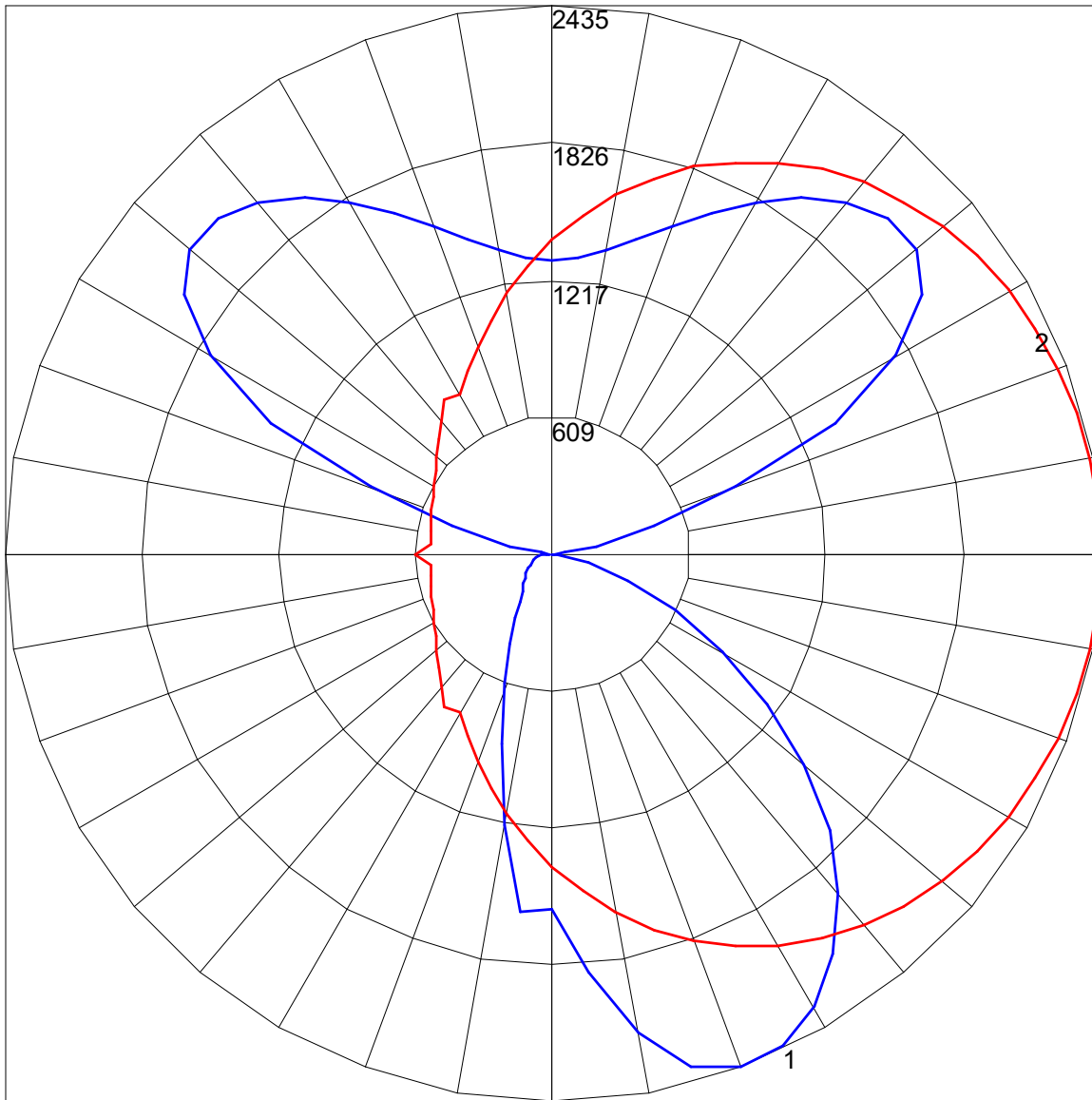
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	88	84	86	83	80	77	67	65	63	53	52	50	40	39	38	32
2	87	80	74	70	79	73	68	64	59	56	53	47	45	43	35	34	33	27
3	80	71	64	58	72	64	59	54	53	48	45	42	39	36	32	30	28	24
4	73	63	55	49	66	57	51	46	47	42	39	37	34	31	29	26	25	21
5	67	56	48	43	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	43	37	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	38	32	52	42	35	30	35	29	26	28	24	21	22	19	17	14
8	53	41	34	29	48	38	31	27	31	26	23	25	22	19	20	17	15	13
9	49	38	30	26	45	35	28	24	29	24	21	23	20	17	18	16	14	12
10	46	34	28	23	42	32	26	21	27	22	19	22	18	16	17	15	13	11

POLAR GRAPH



Maximum Candela = 2434.63 Located At Horizontal Angle = 0, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)