

IES Report

DoubleBox™ | 107 | 120° Batwing, up | Black Baffle, down | 80 CRI | HO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-G1BB-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	74	76	78	80
Total Lumens, 4' rail length (1219mm)	7251	7480	7632	7785
Lumens per foot (305mm)	1813	1870	1908	1946
Lumens per foot UP (305mm)	1414	1459	1488	1518
Lumens per foot DOWN (305mm)	399	412	420	428
Input Power (W), 4' rail length (1219mm)	98.4	98.4	98.4	98.4
Watts per foot (305mm)	24.7	24.7	24.7	24.7
CRI	85	85	85	85

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_G1BB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L011800102 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 1/9/2018
[MANUFAC] Vode Lighting
[LUMCAT] 107-DB-48-Z-HO-35-G1BB
[LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board,
[MORE] 120° batwing lens up with white polycarbonate reflectors/black baffle down, high output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7632
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	98.44
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)	3.77 ft
Luminous Height	0.21 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	687	1960	2281
55	534	487	1202
65	349	237	676
75	210	169	523
85	77	97	639

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	2126.970	2126.970	2126.970	2126.970	2126.970	2126.970	2126.970	2126.970	2126.970	2126.970
5	2118.926	2093.734	2068.718	2044.386	2020.495	1997.353	1975.137	1954.000	1934.098	1915.585
10	2093.117	2042.535	1993.099	1944.655	1897.820	1852.903	1811.732	1780.039	1751.387	1724.983
15	2052.299	1977.407	1904.653	1833.530	1767.696	1716.850	1669.133	1624.965	1584.632	1527.570
20	1994.664	1898.834	1806.310	1719.142	1647.402	1579.893	1508.594	1410.031	1318.367	1234.460
25	1918.516	1801.065	1687.471	1596.820	1513.355	1404.367	1277.372	1155.315	1082.517	1015.978
30	1827.204	1693.311	1568.565	1463.125	1338.291	1188.419	1064.510	966.807	872.123	754.231
35	1689.586	1537.621	1403.882	1280.370	1095.917	953.164	841.289	714.515	583.399	486.445
40	764.083	706.118	670.391	651.987	633.319	641.210	547.407	439.456	380.124	294.146
45	49.414	76.016	128.317	165.058	162.743	148.461	191.748	178.436	156.220	112.558
50	43.926	43.176	41.898	40.377	38.372	45.050	41.898	47.783	50.295	51.067
55	40.818	39.474	37.005	33.853	30.525	28.321	25.985	26.558	27.660	29.027
60	37.512	35.771	32.443	28.586	25.346	22.481	20.740	19.307	18.998	19.021
65	27.462	27.021	25.456	22.966	20.916	19.087	17.544	16.155	15.009	14.238
70	21.599	20.696	19.880	19.021	17.720	16.420	15.141	13.885	12.739	11.769
75	16.464	15.715	16.332	15.715	14.899	13.775	12.695	11.703	10.756	9.918
80	13.180	12.960	12.893	12.475	11.791	11.042	10.227	9.433	8.662	8.045
85	5.863	6.921	7.031	6.854	6.634	6.480	6.149	6.061	5.686	5.356
90	2.050	2.116	2.116	2.116	2.204	2.116	2.116	2.116	2.006	2.006
95	77.603	97.020	95.962	99.070	102.552	104.999	113.264	112.999	110.354	112.272
100	323.393	299.391	304.769	306.003	306.643	305.761	304.394	302.455	292.779	283.038
105	562.593	531.451	532.332	534.272	532.530	530.304	526.910	519.857	507.625	484.616
110	815.700	804.923	777.659	771.775	775.720	767.807	757.140	756.699	727.078	694.789
115	1077.954	1078.726	1059.264	1038.503	1028.012	1024.353	1013.774	994.952	968.151	918.936
120	1332.516	1331.503	1328.659	1315.391	1295.908	1278.518	1260.335	1238.273	1191.064	1125.605
125	1568.234	1564.840	1561.402	1553.908	1544.100	1519.856	1499.910	1448.072	1393.788	1317.882
130	1770.826	1766.969	1759.299	1746.317	1731.176	1706.932	1670.103	1619.058	1549.214	1455.918
135	1930.968	1927.508	1917.216	1900.774	1878.117	1851.007	1801.241	1749.183	1662.543	1572.510
140	2045.180	2039.868	2026.424	2005.927	1979.523	1947.366	1891.385	1823.413	1742.571	1635.632
145	2108.302	2101.316	2085.315	2061.335	2026.336	1984.944	1933.349	1851.360	1766.330	1667.348
150	2103.740	2095.365	2079.254	2048.860	2010.312	1962.926	1906.835	1833.486	1750.064	1660.383
155	2018.820	2010.687	1996.780	1967.334	1930.770	1884.751	1830.973	1773.537	1701.246	1627.191
160	1875.141	1869.477	1855.481	1835.491	1803.269	1766.594	1724.718	1674.952	1622.563	1573.502
165	1699.086	1695.185	1685.729	1673.740	1657.210	1632.701	1605.680	1576.433	1545.246	1510.093
170	1541.147	1539.163	1534.799	1529.466	1522.722	1514.655	1505.310	1491.645	1477.231	1462.090
175	1442.694	1441.967	1441.174	1439.565	1438.088	1436.413	1434.562	1432.534	1430.352	1428.016
180	1410.560	1410.560	1410.560	1410.560	1410.560	1410.560	1410.560	1410.560	1410.560	1410.560

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>
0	2126.970	2126.970	2126.970	2126.970	2126.970	2126.970	2126.970	2126.970	2126.970
5	1898.592	1883.252	1869.675	1857.972	1848.252	1840.560	1832.670	1831.061	1830.488
10	1701.047	1679.712	1661.089	1642.663	1627.345	1615.290	1606.584	1600.435	1599.355
15	1468.657	1413.051	1363.461	1320.284	1283.874	1255.619	1235.606	1221.721	1220.509
20	1172.881	1129.792	1091.421	1053.159	1022.524	999.404	983.932	973.992	974.168
25	956.183	877.655	800.118	733.976	677.333	633.165	601.053	576.897	572.467
30	641.188	547.165	497.399	455.170	420.523	392.554	372.696	353.059	346.072
35	414.043	349.951	288.327	233.007	184.563	146.346	119.347	102.486	96.271
40	209.049	130.146	100.172	90.695	82.165	75.729	71.762	69.426	68.633
45	88.777	75.597	68.412	62.726	57.767	53.337	50.119	48.224	47.761
50	52.565	49.524	46.130	42.956	39.672	36.432	34.008	32.465	31.848
55	30.966	30.702	30.129	28.608	26.514	24.442	22.723	21.533	20.872
60	19.417	19.351	19.285	18.734	17.610	16.310	15.141	14.194	13.731

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CANDELA TABULATION - (Cont.)

65	13.775	13.312	13.180	12.739	11.946	11.086	10.337	9.499	8.970
70	10.910	10.271	9.830	9.301	8.618	8.045	7.405	6.678	6.414
75	9.058	8.309	7.714	7.141	6.502	5.929	5.356	4.849	4.584
80	7.295	6.590	6.105	5.554	4.981	4.386	4.055	3.659	3.306
85	5.091	4.827	4.518	4.232	3.725	3.328	2.843	2.667	2.557
90	2.006	1.917	1.653	1.653	1.653	1.653	1.278	1.278	1.278
95	102.706	91.179	81.063	72.401	63.277	58.296	56.290	55.431	54.549
100	264.039	236.930	212.113	193.555	180.133	173.675	173.256	172.529	168.915
105	450.343	405.955	360.442	321.762	299.612	287.688	281.120	279.511	281.120
110	649.012	586.617	523.759	471.744	437.053	419.355	411.861	405.073	404.632
115	849.400	756.787	682.160	619.809	573.503	547.099	534.206	526.822	524.706
120	1044.299	941.968	835.360	757.162	703.208	669.796	651.657	643.546	644.383
125	1206.822	1089.702	976.659	881.512	814.885	771.885	748.853	740.280	737.547
130	1347.812	1220.553	1102.771	1002.952	927.730	882.393	854.689	840.606	837.652
135	1446.155	1322.907	1203.516	1106.298	1029.599	977.055	948.183	932.226	926.782
140	1521.818	1399.849	1287.885	1190.006	1118.001	1062.328	1031.869	1015.361	1009.873
145	1557.787	1451.598	1349.950	1262.451	1194.590	1144.868	1111.103	1094.815	1086.374
150	1568.631	1477.099	1390.129	1319.799	1256.060	1217.247	1182.424	1169.509	1160.670
155	1553.313	1482.168	1416.709	1354.204	1311.953	1275.521	1249.227	1236.929	1227.826
160	1522.832	1470.355	1419.993	1385.456	1352.374	1320.262	1308.294	1297.892	1289.693
165	1477.958	1451.929	1426.076	1400.488	1374.745	1364.342	1355.041	1346.269	1338.732
170	1446.353	1430.132	1413.844	1406.901	1400.245	1393.854	1387.749	1381.908	1376.618
175	1425.591	1423.035	1420.412	1417.723	1415.012	1412.257	1409.436	1406.747	1404.080
180	1410.560	1410.560	1410.560	1410.560	1410.560	1410.560	1410.560	1410.560	1410.560

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	614.68	N.A.	8.10
0-30	1117.4	N.A.	14.60
0-40	1506.1	N.A.	19.70
0-60	1646.32	N.A.	21.60
0-80	1673.97	N.A.	21.90
0-90	1679.53	N.A.	22.00
10-90	1498.57	N.A.	19.60
20-40	891.42	N.A.	11.70
20-50	1004.26	N.A.	13.20
40-70	156.80	N.A.	2.10
60-80	27.65	N.A.	0.40
70-80	11.07	N.A.	0.10
80-90	5.56	N.A.	0.10
90-110	579.66	N.A.	7.60
90-120	1404.53	N.A.	18.40
90-130	2482.17	N.A.	32.50
90-150	4634.98	N.A.	60.70
90-180	5952.76	N.A.	78.00
110-180	5373.11	N.A.	70.40
0-180	7632.29	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	180.97
10-20	433.71
20-30	502.72
30-40	388.70
40-50	112.83
50-60	27.39
60-70	16.58
70-80	11.07
80-90	5.56
90-100	117.66
100-110	462.00
110-120	824.88
120-130	1077.64
130-140	1138.88
140-150	1013.93
150-160	749.00
160-170	431.57
170-180	137.21

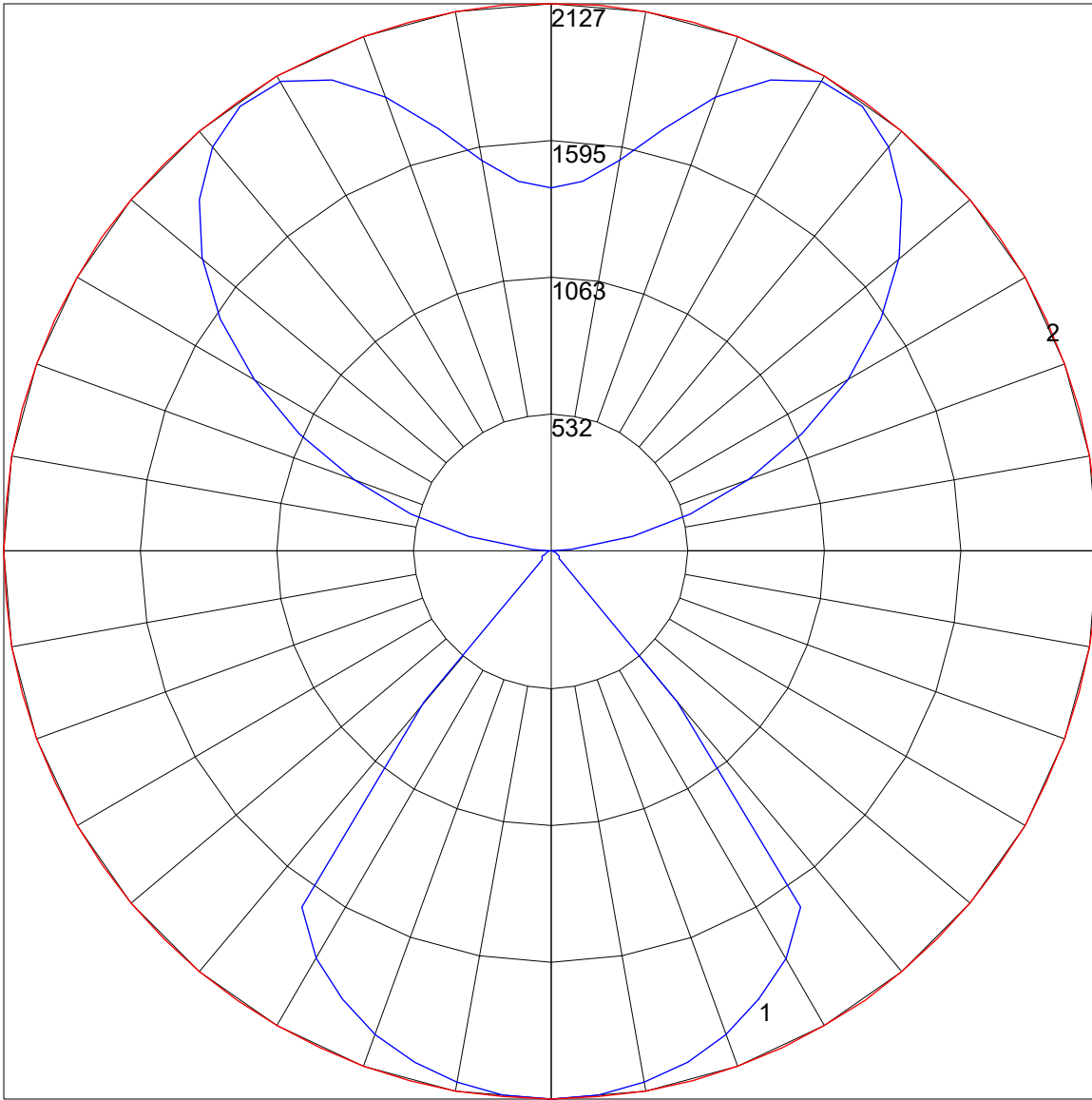
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	100	100	100	89	89	89	89	68	68	68	48	48	48	30	30	30	22
1	92	89	85	82	82	79	76	74	61	59	57	44	43	42	28	28	27	20
2	85	79	73	69	75	70	66	62	54	52	49	40	38	37	26	25	25	19
3	78	70	64	59	69	63	58	53	49	46	43	36	34	32	24	23	22	17
4	72	63	56	51	64	56	51	46	44	40	37	33	31	29	23	21	21	16
5	67	57	49	44	59	51	45	41	40	36	33	30	28	26	21	20	19	15
6	62	51	44	39	55	46	40	36	37	33	30	28	25	23	20	18	17	14
7	57	47	40	35	51	42	36	32	34	30	26	26	23	21	18	17	16	13
8	53	43	36	31	48	39	33	29	31	27	24	24	21	19	17	16	15	12
9	50	39	32	28	45	36	30	26	29	25	22	22	20	18	16	15	14	11
10	47	36	30	25	42	33	27	23	27	23	20	21	18	16	15	14	13	11

POLAR GRAPH



Maximum Candela = 2126.97 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)