

IES Report

DoubleBox™ | 107 | 120° Batwing, up | 60° Symmetric down | 80 CRI | HO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-G1S2-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	75	77	78	80
Total Lumens, 4' rail length (1219mm)	7291	7521	7674	7828
Lumens per foot (305mm)	1823	1880	1919	1957
Lumens per foot UP (305mm)	1314	1356	1383	1411
Lumens per foot DOWN (305mm)	509	525	535	546
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_G1S2_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L011800108 (SOURCE REPORT FOR REFERENCE)
 [TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
 [ISSUEDATE] 1/12/2018
 [MANUFAC] Vode Lighting
 [LUMCAT] 107-DB-48-Z-HO-35-G1S2-BL
 [LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board,
 [MORE] 120° batwing lens up with white polycarbonate reflectors/60° black symmetric lens down, high output
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7674
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	1861	4820	27886
55	735	1900	14290
65	342	785	7628
75	161	332	4301
85	24	63	1879

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	2117.824	2117.824	2117.824	2117.824	2117.824	2117.824	2117.824	2117.824	2117.824	2117.824
5	2054.128	2052.585	2050.954	2051.814	2052.056	2052.784	2053.996	2055.693	2057.853	2060.476
10	1865.642	1863.085	1865.576	1869.874	1877.037	1886.977	1899.429	1908.906	1921.249	1936.236
15	1574.097	1571.077	1579.144	1591.795	1609.581	1627.345	1651.215	1680.881	1716.012	1750.725
20	1222.537	1220.641	1235.739	1256.522	1280.282	1314.069	1355.107	1396.653	1446.816	1493.607
25	873.511	876.200	892.862	914.682	947.654	986.180	1029.951	1082.737	1137.440	1200.078
30	575.222	578.418	594.683	619.478	651.392	687.472	728.400	780.480	844.683	907.122
35	358.899	362.911	376.223	397.888	421.449	449.109	481.310	533.302	585.272	643.502
40	218.152	221.700	231.684	245.768	262.342	279.864	309.838	345.741	383.077	435.312
45	133.783	136.582	143.480	151.900	161.333	172.088	195.803	216.146	248.347	276.756
50	84.920	86.595	90.651	95.742	101.186	110.751	123.336	138.323	155.911	178.965
55	56.180	57.194	59.618	62.770	65.459	72.269	78.264	88.865	100.216	113.308
60	38.438	39.187	40.576	42.096	43.926	47.342	51.772	56.400	64.842	74.010
65	26.911	27.330	27.814	28.586	30.063	31.605	34.603	37.821	42.052	47.122
70	18.668	18.756	19.329	20.167	21.269	22.393	23.605	25.082	27.550	30.702
75	12.629	12.607	13.378	14.348	14.701	15.119	15.781	16.574	17.830	19.461
80	5.312	6.524	6.810	7.141	7.317	7.604	8.001	8.728	9.764	10.932
85	1.829	2.887	2.887	2.755	2.689	2.777	2.667	2.821	3.064	3.482
90	1.851	2.006	2.006	2.006	2.006	2.006	2.006	2.006	2.006	2.006
95	74.121	85.780	84.413	87.014	90.188	93.229	96.623	104.315	99.356	97.285
100	292.272	271.731	277.528	278.409	278.784	278.211	275.742	274.640	263.841	252.314
105	513.907	485.740	485.872	487.591	483.514	481.265	476.483	468.835	457.793	436.172
110	750.352	740.015	716.388	709.776	712.465	706.735	701.467	690.006	678.149	641.298
115	1000.528	999.095	979.237	961.914	951.731	946.133	932.534	914.440	888.961	848.694
120	1239.001	1236.180	1232.477	1218.966	1201.797	1181.410	1161.706	1139.710	1095.983	1036.431
125	1457.505	1453.472	1448.689	1441.416	1430.815	1406.086	1382.768	1334.985	1283.257	1212.420
130	1644.559	1640.547	1631.533	1618.948	1603.498	1578.395	1541.610	1491.755	1426.363	1341.310
135	1792.425	1789.141	1777.790	1760.732	1737.722	1710.458	1661.794	1611.653	1532.221	1450.474
140	1895.638	1890.657	1876.464	1855.724	1829.408	1796.877	1743.695	1680.440	1607.113	1514.082
145	1947.807	1941.393	1926.296	1903.683	1870.403	1831.326	1784.204	1710.855	1634.861	1548.420
150	1939.013	1931.718	1917.568	1890.790	1856.165	1812.988	1763.112	1699.659	1626.839	1547.869
155	1864.716	1857.619	1845.475	1819.711	1787.819	1747.353	1700.077	1650.025	1587.167	1522.435
160	1739.529	1734.658	1722.690	1705.587	1678.126	1646.961	1611.300	1568.300	1523.140	1479.193
165	1588.731	1585.447	1577.315	1566.934	1552.608	1531.405	1507.845	1482.168	1454.574	1422.902
170	1450.739	1448.976	1445.009	1440.072	1433.834	1426.319	1417.569	1404.918	1391.539	1377.478
175	1357.598	1356.959	1356.253	1354.733	1353.322	1351.735	1349.950	1347.966	1345.851	1343.580
180	1324.604	1324.604	1324.604	1324.604	1324.604	1324.604	1324.604	1324.604	1324.604	1324.604

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	2117.824	2117.824	2117.824	2117.824	2117.824	2117.824	2117.824	2117.824	2117.824
5	2063.539	2066.977	2070.834	2075.022	2079.518	2084.323	2089.061	2094.549	2100.081
10	1953.736	1973.594	1994.951	2000.791	2007.557	2015.514	2024.550	2034.292	2045.532
15	1780.898	1804.503	1831.921	1862.931	1898.129	1908.201	1919.662	1932.776	1949.460
20	1540.133	1588.775	1640.790	1674.379	1713.037	1757.315	1769.525	1783.675	1804.327
25	1269.879	1330.268	1387.308	1450.827	1493.871	1538.656	1573.237	1585.095	1607.223
30	976.835	1050.823	1121.461	1183.239	1247.574	1290.288	1340.429	1349.796	1372.409
35	704.178	766.772	846.160	912.059	972.449	1019.504	1053.710	1074.494	1099.355
40	485.321	547.562	604.888	659.415	714.471	765.471	792.448	810.565	824.847
45	321.894	363.285	407.453	454.399	497.840	537.996	559.331	573.745	583.818
50	204.068	235.145	266.309	297.804	328.594	353.191	370.514	381.997	385.987
55	131.138	148.682	169.025	191.704	209.843	225.800	238.980	246.936	248.170
60	84.171	94.397	108.723	122.498	134.334	146.456	155.514	156.484	158.666

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CANDELA TABULATION - (Cont.)

65	53.910	60.897	68.765	76.721	84.700	91.532	95.455	98.320	101.208
70	34.515	39.187	43.992	48.488	53.205	57.502	59.905	61.954	63.872
75	21.577	24.244	27.087	29.467	31.914	34.206	35.837	36.895	37.710
80	11.880	13.599	14.965	15.935	17.235	18.029	18.734	19.285	19.594
85	3.857	4.232	4.761	5.532	6.987	7.383	7.075	7.361	7.516
90	2.006	2.006	1.917	1.829	1.917	1.829	2.204	2.204	1.829
95	91.929	82.386	73.614	66.296	58.582	53.403	50.780	50.383	51.243
100	236.423	216.389	198.096	181.147	172.154	164.308	161.046	157.366	159.944
105	407.453	375.121	340.496	307.392	282.421	267.279	261.108	256.502	253.658
110	597.482	547.209	494.027	446.090	412.941	392.665	379.419	372.454	371.154
115	789.649	719.342	648.681	587.079	542.272	512.562	494.027	484.616	486.092
120	964.294	875.870	784.602	713.281	663.646	630.035	608.745	595.389	591.686
125	1115.334	1016.705	918.980	831.305	774.133	735.387	710.393	696.839	692.519
130	1246.186	1139.622	1038.304	949.109	879.132	832.605	800.801	783.544	782.376
135	1342.082	1237.083	1134.773	1046.569	974.807	923.718	892.201	873.115	865.114
140	1416.180	1311.512	1214.029	1126.222	1058.427	1004.363	971.545	951.775	942.342
145	1454.618	1363.747	1273.625	1194.193	1129.462	1080.820	1046.018	1028.453	1018.468
150	1467.776	1387.837	1311.093	1245.569	1185.135	1146.411	1111.455	1098.452	1089.283
155	1457.549	1394.339	1335.117	1278.033	1236.885	1200.563	1174.137	1161.728	1152.428
160	1433.019	1385.280	1339.547	1306.509	1274.573	1243.254	1230.515	1219.054	1209.709
165	1393.347	1368.728	1344.220	1319.954	1295.467	1285.549	1276.667	1268.314	1261.151
170	1362.821	1347.702	1332.560	1325.970	1319.667	1313.584	1307.765	1302.145	1297.010
175	1341.178	1338.666	1336.065	1333.398	1330.687	1327.932	1325.111	1322.400	1319.711
180	1324.604	1324.604	1324.604	1324.604	1324.604	1324.604	1324.604	1324.604	1324.604

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	680.17	N.A.	8.90
0-30	1238.43	N.A.	16.10
0-40	1671.93	N.A.	21.80
0-60	2052.51	N.A.	26.70
0-80	2134.89	N.A.	27.80
0-90	2141.04	N.A.	27.90
10-90	1947.58	N.A.	25.40
20-40	991.76	N.A.	12.90
20-50	1246.83	N.A.	16.20
40-70	438.41	N.A.	5.70
60-80	82.38	N.A.	1.10
70-80	24.55	N.A.	0.30
80-90	6.15	N.A.	0.10
90-110	531.02	N.A.	6.90
90-120	1296.25	N.A.	16.90
90-130	2297.83	N.A.	29.90
90-150	4299.99	N.A.	56.00
90-180	5533.31	N.A.	72.10
110-180	5002.28	N.A.	65.20
0-180	7674.35	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	193.46
10-20	486.70
20-30	558.27
30-40	433.49
40-50	255.07
50-60	125.52
60-70	57.82
70-80	24.55
80-90	6.15
90-100	106.69
100-110	424.33
110-120	765.23
120-130	1001.59
130-140	1058.85
140-150	943.30
150-160	698.85
160-170	405.35
170-180	129.11

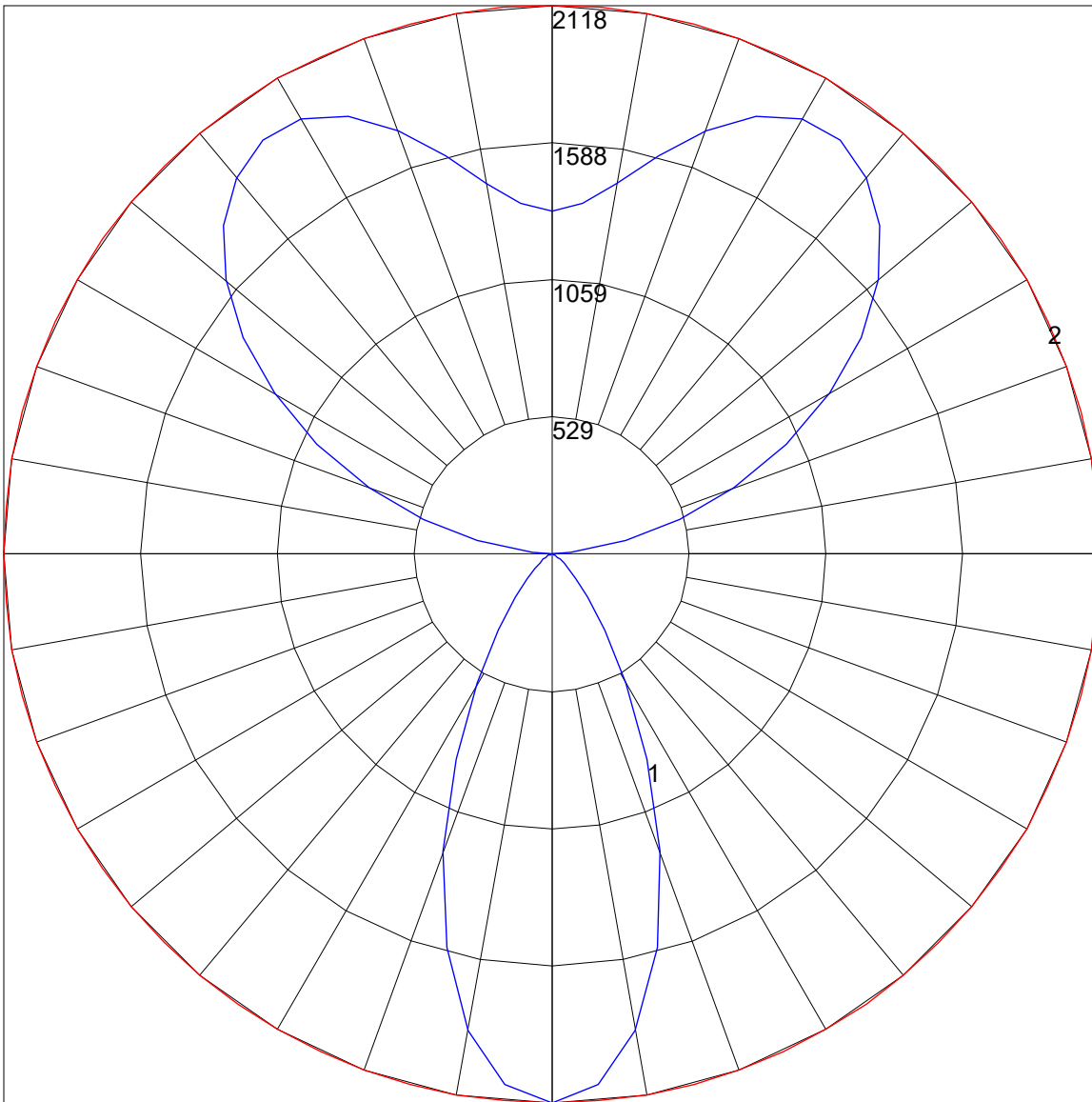
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	94	90	87	84	84	81	78	76	64	62	60	48	47	46	33	33	32	25
2	86	80	75	70	77	72	67	64	57	54	52	43	41	40	31	30	29	23
3	79	71	65	60	71	64	59	55	51	48	45	39	37	35	28	27	26	21
4	73	64	57	52	66	58	52	47	46	42	39	36	33	31	26	25	23	19
5	68	57	50	45	61	52	46	41	42	38	35	33	30	28	24	23	21	18
6	63	52	45	40	56	47	41	37	38	34	31	30	27	25	22	21	19	16
7	58	47	40	35	52	43	37	33	35	31	28	28	25	23	21	19	18	15
8	54	43	36	31	49	39	33	29	32	28	25	26	23	21	20	18	16	14
9	51	40	33	28	46	36	30	26	30	26	23	24	21	19	18	17	15	13
10	48	37	30	26	43	34	28	24	28	24	21	22	19	17	17	15	14	12

POLAR GRAPH



Maximum Candela = 2117.824 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.)