

IES Report

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

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-G1S2-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	91	94	96	96
Total Lumens, 4' rail length (1219mm)	8882	9162	9349	9349
Lumens per foot (305mm)	2220	2291	2337	2337
Lumens per foot UP (305mm)	1411	1456	1485	1485
Lumens per foot DOWN (305mm)	809	835	852	852
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_G1S2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911510 (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-G1S2-AL

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

[MORE] 60° symmetric 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	9332
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
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	5010	9926	54642
55	2701	5147	38572
65	1597	2810	26655
75	864	1389	17793
85	0	236	8078

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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	2472.800	2472.800	2472.800	2472.800	2472.800	2472.800	2472.800	2472.800	2472.800	2472.800
5	2431.000	2428.800	2428.800	2428.800	2428.800	2428.800	2426.600	2435.400	2442.000	2446.400
10	2305.600	2294.600	2296.800	2296.800	2299.000	2299.000	2303.400	2323.200	2340.800	2354.000
15	2072.400	2050.400	2054.800	2061.400	2070.200	2074.600	2090.000	2129.600	2167.000	2193.400
20	1738.000	1709.400	1720.400	1731.400	1742.400	1755.600	1782.000	1839.200	1903.000	1960.200
25	1355.200	1320.000	1335.400	1350.800	1372.800	1394.800	1436.600	1509.200	1592.800	1661.000
30	992.200	961.400	976.800	994.400	1023.000	1047.200	1086.800	1163.800	1256.200	1335.400
35	699.600	675.400	688.600	706.200	721.600	745.800	785.400	855.800	941.600	1027.400
40	492.800	477.400	486.200	499.400	519.200	536.800	565.400	618.200	688.600	759.000
45	354.200	343.200	352.000	360.800	371.800	385.000	407.000	448.800	499.400	554.400
50	264.000	257.400	261.800	268.400	277.200	286.000	301.400	327.800	365.200	404.800
55	204.600	200.200	202.400	206.800	213.400	217.800	228.800	248.600	270.600	301.400
60	160.600	158.400	160.600	162.800	167.200	171.600	178.200	189.200	204.600	224.400
65	125.400	123.200	125.400	127.600	129.800	132.000	136.400	143.000	154.000	167.200
70	94.600	94.600	94.600	96.800	96.800	99.000	101.200	107.800	112.200	121.000
75	68.200	66.000	68.200	68.200	68.200	70.400	70.400	72.600	77.000	81.400
80	41.800	41.800	41.800	41.800	41.800	41.800	41.800	44.000	46.200	48.400
85	0.000	0.000	0.000	2.200	2.200	2.200	4.400	4.400	8.800	13.200
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>
0	2472.800	2472.800	2472.800	2472.800	2472.800	2472.800	2472.800	2472.800	2472.800
5	2450.800	2453.000	2455.200	2457.400	2459.600	2459.600	2461.800	2461.800	2461.800
10	2365.000	2376.000	2387.000	2395.800	2402.400	2406.800	2411.200	2413.400	2413.400
15	2217.600	2241.800	2268.200	2288.000	2303.400	2314.400	2321.000	2327.600	2327.600
20	2008.600	2052.600	2094.400	2129.600	2153.800	2173.600	2186.800	2195.600	2197.800
25	1729.200	1801.800	1863.400	1914.000	1955.800	1986.600	2006.400	2019.600	2024.000
30	1423.400	1507.000	1590.600	1658.800	1716.000	1755.600	1782.000	1799.600	1804.000
35	1117.600	1214.400	1300.200	1381.600	1445.400	1493.800	1526.800	1544.400	1551.000
40	840.400	928.400	1016.400	1100.000	1168.200	1218.800	1254.000	1273.800	1280.400
45	620.400	690.800	770.000	844.800	906.400	957.000	992.200	1012.000	1018.600
50	453.200	508.200	572.000	631.400	684.200	728.200	761.200	778.800	785.400
55	334.400	374.000	418.000	464.200	508.200	545.600	572.000	587.400	596.200
60	248.600	275.000	308.000	341.000	371.800	398.200	420.200	433.400	437.800

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CANDELA TABULATION - (Cont.)

65	182.600	200.200	222.200	244.200	266.200	286.000	301.400	312.400	314.600
70	129.800	140.800	156.200	169.400	184.800	198.000	209.000	215.600	217.800
75	85.800	92.400	101.200	110.000	118.800	125.400	132.000	136.400	138.600
80	50.600	52.800	57.200	61.600	66.000	68.200	72.600	74.800	74.800
85	17.600	19.800	22.000	24.200	24.200	26.400	26.400	28.600	28.600
90	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
100	291.104	289.894	268.488	239.162	219.186	201.498	185.658	179.608	180.356
105	536.998	495.242	446.864	389.818	347.116	315.414	292.666	281.138	279.378
110	743.710	676.148	602.316	526.526	469.546	431.244	403.568	389.576	388.938
115	956.274	843.106	741.532	654.302	587.928	542.498	511.192	494.494	493.130
120	1100.968	972.004	860.288	770.726	698.786	649.682	619.696	600.358	592.526
125	1207.008	1078.990	965.602	871.772	796.620	745.052	714.054	695.310	686.026
130	1283.612	1163.822	1056.660	964.370	889.724	833.690	795.938	772.002	754.072
135	1333.046	1225.070	1125.674	1043.108	974.534	922.482	888.096	866.712	857.890
140	1360.480	1268.784	1182.764	1106.380	1046.650	997.568	964.788	944.812	935.528
145	1371.282	1295.096	1224.014	1160.192	1107.986	1066.934	1036.156	1020.052	1010.768
150	1367.982	1308.318	1250.524	1202.938	1158.190	1128.160	1100.616	1089.264	1081.586
155	1357.576	1313.136	1272.458	1232.836	1204.302	1179.068	1160.236	1150.446	1143.362
160	1345.014	1313.598	1283.238	1261.524	1240.580	1220.428	1211.606	1204.126	1198.494
165	1326.358	1311.222	1296.064	1281.016	1266.166	1259.412	1253.780	1248.654	1244.606
170	1317.250	1308.340	1299.518	1295.294	1291.422	1287.814	1284.492	1281.368	1278.728
175	1311.816	1310.298	1308.736	1307.174	1305.612	1304.050	1302.466	1300.992	1299.562
180	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800	1306.800

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	840.59	N.A.	9.00
0-30	1602.18	N.A.	17.20
0-40	2276.68	N.A.	24.40
0-60	3083.24	N.A.	33.00
0-80	3376.24	N.A.	36.20
0-90	3400.84	N.A.	36.40
10-90	3170.5	N.A.	34.00
20-40	1436.08	N.A.	15.40
20-50	1923.9	N.A.	20.60
40-70	1000.93	N.A.	10.70
60-80	293.00	N.A.	3.10
70-80	98.64	N.A.	1.10
80-90	24.60	N.A.	0.30
90-110	594.85	N.A.	6.40
90-120	1543.6	N.A.	16.50
90-130	2726.89	N.A.	29.20
90-150	4770.53	N.A.	51.10
90-180	5930.74	N.A.	63.60
110-180	5335.89	N.A.	57.20
0-180	9331.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	230.35
10-20	610.25
20-30	761.59
30-40	674.50
40-50	487.82
50-60	318.74
60-70	194.37
70-80	98.64
80-90	24.60
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

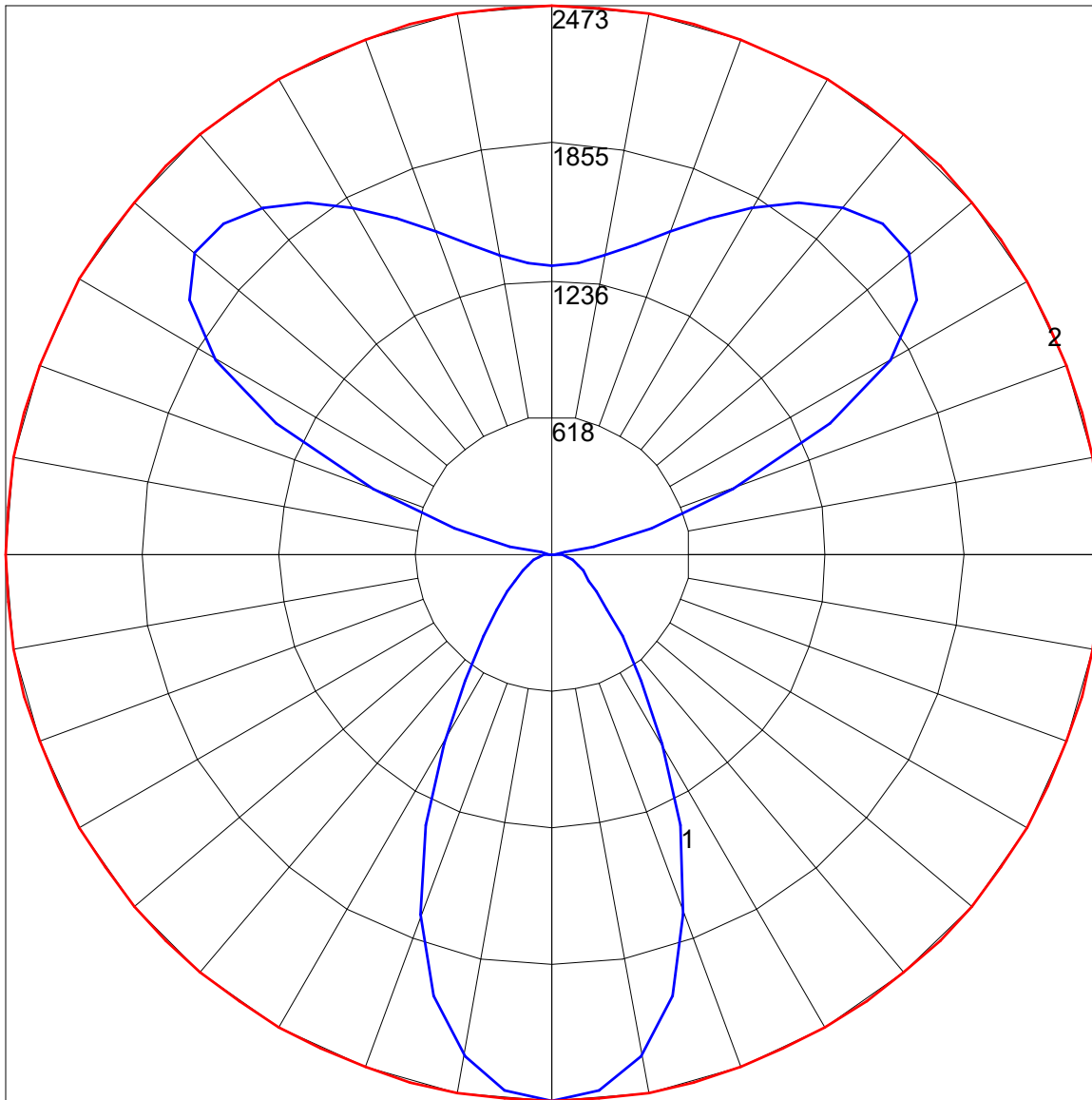
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	36
1	96	92	88	85	87	83	80	78	68	66	64	53	52	51	40	39	38	32
2	88	81	76	71	79	74	69	65	60	57	54	48	46	44	36	35	34	29
3	81	72	66	60	73	66	60	56	54	50	47	43	40	38	33	31	30	25
4	74	64	57	52	67	59	53	48	49	44	41	39	36	34	30	28	27	23
5	69	58	51	45	62	53	47	42	44	39	36	36	32	30	28	26	24	21
6	63	52	45	40	58	48	42	37	40	35	32	33	29	27	26	23	22	19
7	59	48	40	35	54	44	37	33	37	32	28	30	27	24	24	21	20	17
8	55	43	36	31	50	40	34	29	34	29	26	28	24	22	22	20	18	16
9	51	40	33	28	47	37	31	27	31	26	23	26	22	20	21	18	17	14
10	48	37	30	26	44	34	28	24	29	24	21	24	21	18	19	17	15	13

POLAR GRAPH



Maximum Candela = 2472.8 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)