

IES Report

DoubleBox™ | 107 | Wide Batwing, up | White Baffle, down | 80 CRI | HO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-G1WB-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	93	96	97	97
Total Lumens, 4' rail length (1219mm)	9041	9327	9517	9517
Lumens per foot (305mm)	2260	2332	2379	2379
Lumens per foot UP (305mm)	1411	1456	1485	1485
Lumens per foot DOWN (305mm)	849	876	894	894
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_G1WB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911507 (SOURCE REPORTS FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 3/18/20

[MANUFAC] Vode Lighting

[LUMCAT] 107-DB-48-Z-HO-35-G1WB-AL

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

[MORE] white baffle 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	9499
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
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	4761	10911	24784
55	3281	5447	19215
65	2465	2921	15098
75	781	1126	9885
85	172	197	3107

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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	2695.000	2695.000	2695.000	2695.000	2695.000	2695.000	2695.000	2695.000	2695.000	2695.000
5	2688.400	2686.200	2684.000	2679.600	2677.400	2670.800	2664.200	2657.600	2653.200	2648.800
10	2662.000	2659.800	2646.600	2633.400	2620.200	2611.400	2596.000	2576.200	2556.400	2530.000
15	2615.800	2607.000	2587.200	2567.400	2543.200	2505.800	2457.400	2409.000	2358.400	2310.000
20	2543.200	2527.800	2503.600	2470.600	2413.400	2340.800	2268.200	2197.800	2134.000	2083.400
25	2439.800	2417.800	2387.000	2323.200	2235.200	2142.800	2057.000	1991.000	1922.800	1837.000
30	2323.200	2299.000	2248.400	2151.600	2039.400	1933.800	1856.800	1742.400	1623.600	1513.600
35	2171.400	2142.800	2068.000	1951.400	1832.600	1738.000	1599.400	1454.200	1328.800	1223.200
40	1434.400	1438.800	1452.000	1471.800	1491.600	1414.600	1295.800	1172.600	1014.200	858.000
45	336.600	352.000	387.200	433.400	510.400	640.200	743.600	748.000	668.800	609.400
50	259.600	268.400	283.800	301.400	323.400	352.000	387.200	420.200	437.800	446.600
55	248.600	253.000	261.800	270.600	283.800	299.200	314.600	316.800	316.800	319.000
60	231.000	233.200	231.000	231.000	231.000	235.400	237.600	237.600	237.600	237.600
65	193.600	191.400	184.800	178.200	173.800	171.600	171.600	171.600	171.600	173.800
70	121.000	118.800	118.800	114.400	112.200	110.000	110.000	112.200	112.200	114.400
75	61.600	61.600	61.600	59.400	59.400	59.400	61.600	61.600	63.800	66.000
80	30.800	30.800	28.600	28.600	28.600	28.600	28.600	28.600	28.600	30.800
85	13.200	13.200	13.200	13.200	13.200	13.200	13.200	13.200	11.000	11.000
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	2695.000	2695.000	2695.000	2695.000	2695.000	2695.000	2695.000	2695.000	2695.000
5	2644.400	2642.200	2640.000	2637.800	2633.400	2633.400	2631.200	2629.000	2629.000
10	2505.800	2483.800	2461.800	2442.000	2426.600	2413.400	2404.600	2398.000	2395.800
15	2268.200	2228.600	2195.600	2167.000	2147.200	2129.600	2118.600	2114.200	2112.000
20	2039.400	1995.400	1947.000	1896.400	1856.800	1821.600	1797.400	1782.000	1777.600
25	1746.800	1665.400	1595.000	1533.400	1489.400	1454.200	1430.000	1416.800	1412.400
30	1421.200	1350.800	1276.000	1194.600	1124.200	1069.200	1031.800	1007.600	1001.000
35	1093.400	974.600	875.600	803.000	756.800	728.200	710.600	699.600	695.200
40	745.800	682.000	644.600	620.400	600.600	585.200	576.400	569.800	567.600
45	572.000	543.400	521.400	501.600	488.400	477.400	468.600	464.200	462.000
50	442.200	426.800	413.600	400.400	391.600	382.800	378.400	374.000	371.800
55	323.400	323.400	319.000	314.600	310.200	303.600	301.400	299.200	297.000
60	239.800	239.800	239.800	239.800	239.800	237.600	235.400	235.400	233.200

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CANDELA TABULATION - (Cont.)

65	173.800	176.000	178.200	178.200	178.200	180.400	178.200	178.200	178.200
70	116.600	118.800	121.000	123.200	123.200	125.400	125.400	125.400	125.400
75	68.200	70.400	72.600	74.800	77.000	77.000	79.200	79.200	77.000
80	30.800	33.000	35.200	35.200	37.400	37.400	39.600	39.600	37.400
85	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000
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	905.63	N.A.	9.50
0-30	1760.75	N.A.	18.50
0-40	2566.31	N.A.	27.00
0-60	3299.19	N.A.	34.70
0-80	3550.07	N.A.	37.40
0-90	3568.32	N.A.	37.60
10-90	3319.02	N.A.	34.90
20-40	1660.68	N.A.	17.50
20-50	2122.82	N.A.	22.30
40-70	908.30	N.A.	9.60
60-80	250.88	N.A.	2.60
70-80	75.46	N.A.	0.80
80-90	18.26	N.A.	0.20
90-110	594.85	N.A.	6.30
90-120	1543.6	N.A.	16.30
90-130	2726.89	N.A.	28.70
90-150	4770.53	N.A.	50.20
90-180	5930.74	N.A.	62.40
110-180	5335.89	N.A.	56.20
0-180	9499.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	249.30
10-20	656.32
20-30	855.12
30-40	805.56
40-50	462.14
50-60	270.74
60-70	175.42
70-80	75.46
80-90	18.26
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

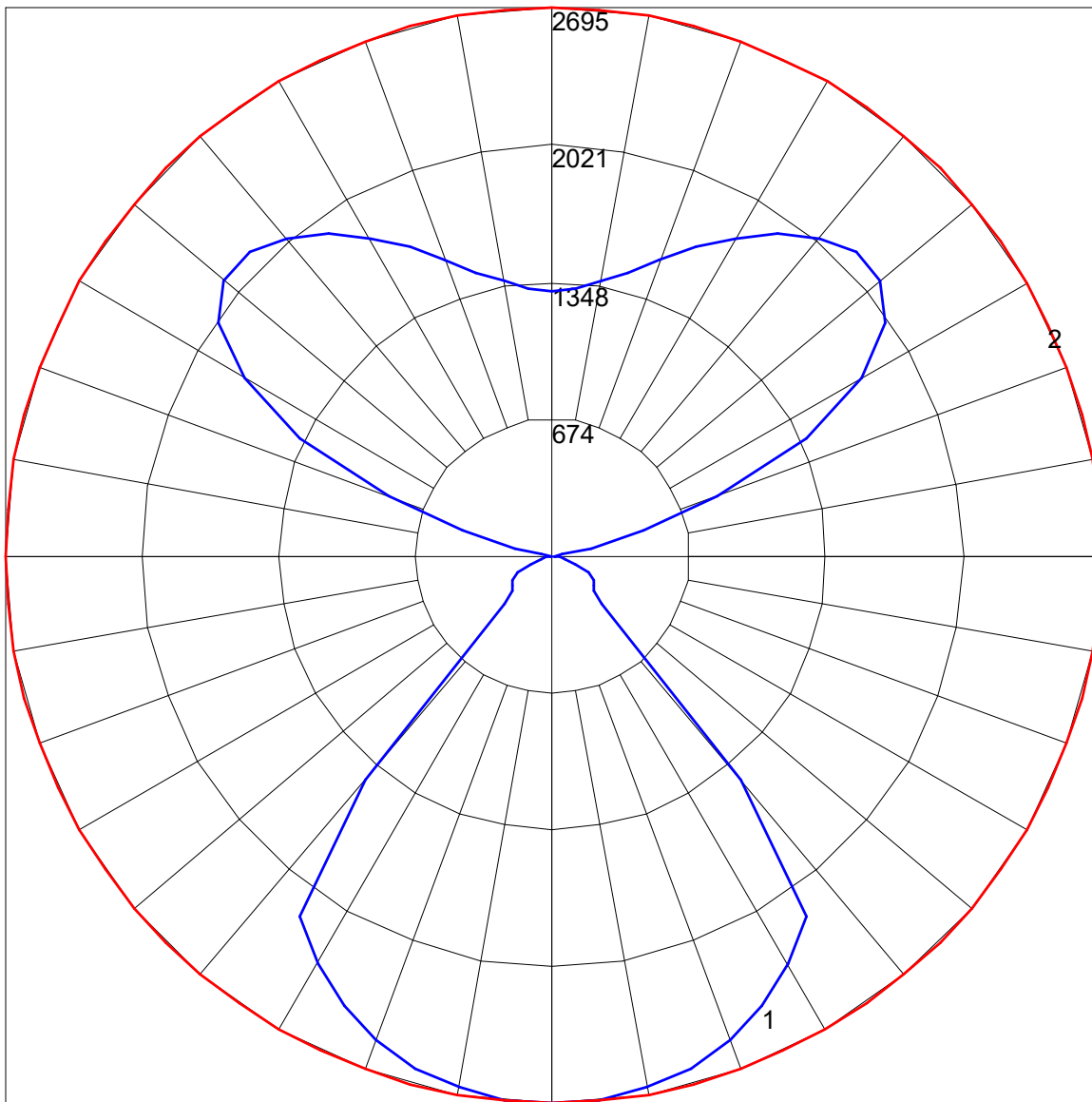
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	95	95	95	76	76	76	60	60	60	45	45	45	38
1	96	92	89	86	87	84	81	78	68	67	65	54	53	52	41	40	40	34
2	88	82	76	72	80	75	70	66	61	58	55	49	47	45	38	36	35	30
3	81	73	66	61	74	67	61	57	55	51	48	44	42	40	34	33	31	27
4	75	65	58	53	68	60	54	49	50	45	42	40	37	35	32	30	28	24
5	69	59	52	46	63	54	48	43	45	41	37	37	34	31	29	27	25	22
6	64	53	46	41	58	49	43	38	41	36	33	34	30	28	27	25	23	20
7	60	48	41	36	54	45	38	34	38	33	30	31	28	25	25	23	21	18
8	56	44	37	32	51	41	35	30	35	30	27	29	25	23	23	21	19	17
9	52	41	34	29	48	38	32	28	32	27	24	27	23	21	22	19	18	16
10	49	38	31	26	45	35	29	25	30	25	22	25	22	19	20	18	16	14

POLAR GRAPH



Maximum Candela = 2695 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.)