

IES Report

DoubleBox™ | 107 | Wide 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	77	79	81	81
Total Lumens, 4' rail length (1219mm)	7475	7711	7868	7868
Lumens per foot (305mm)	1869	1928	1967	1967
Lumens per foot UP (305mm)	1411	1456	1485	1485
Lumens per foot DOWN (305mm)	458	472	482	482
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_G1BB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911508 (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-G1BB-AL

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

[MORE] black 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	7854
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
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	655	2032	2671
55	528	466	1193
65	376	195	531
75	227	137	260
85	94	86	106

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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	2189.792	2189.792	2189.792	2189.792	2189.792	2189.792	2189.792	2189.792	2189.792	2189.792
5	2187.504	2186.404	2182.158	2176.526	2168.980	2159.102	2148.586	2135.958	2123.792	2111.890
10	2168.892	2162.886	2145.462	2118.908	2084.522	2049.102	2014.980	1981.342	1949.244	1920.116
15	2128.500	2115.872	2076.668	2022.922	1965.018	1909.600	1855.370	1799.776	1743.258	1692.262
20	2071.872	2048.926	1982.442	1905.816	1827.078	1747.504	1666.346	1588.268	1515.228	1451.802
25	1999.030	1962.796	1871.144	1774.982	1668.942	1563.914	1465.904	1374.054	1288.034	1206.150
30	1908.852	1856.954	1742.158	1624.678	1493.294	1371.766	1262.580	1151.480	1032.064	918.830
35	1800.238	1733.204	1596.738	1455.102	1306.096	1174.712	1040.556	893.948	744.106	632.456
40	1077.890	1064.074	1062.776	1058.992	1024.232	930.732	763.092	627.000	475.332	316.272
45	46.288	48.224	52.272	60.852	100.144	161.722	249.964	274.692	166.056	113.498
50	41.492	40.766	38.720	36.432	34.496	33.572	35.398	42.240	52.558	59.752
55	40.018	38.720	35.508	31.988	28.116	24.904	22.682	22.308	23.782	27.302
60	38.544	36.608	32.736	28.490	24.156	20.460	18.084	16.500	15.686	15.862
65	29.502	28.402	25.916	23.144	20.108	17.424	15.488	13.838	12.540	11.616
70	23.056	22.220	20.460	18.634	16.500	14.762	13.090	11.814	10.516	9.504
75	17.886	17.424	16.236	15.026	13.750	12.452	11.154	9.966	8.844	8.030
80	14.388	13.926	12.914	11.990	11.154	10.054	9.130	8.206	7.194	6.446
85	7.194	7.194	6.908	6.732	6.556	6.358	6.094	5.808	5.346	4.796
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	2189.792	2189.792	2189.792	2189.792	2189.792	2189.792	2189.792	2189.792	2189.792
5	2099.922	2089.494	2080.078	2071.322	2064.502	2058.980	2054.734	2052.600	2051.786
10	1891.714	1865.798	1842.192	1821.446	1803.648	1789.722	1779.404	1773.310	1771.462
15	1645.512	1602.370	1565.674	1533.950	1508.320	1488.300	1474.374	1465.992	1462.758
20	1394.162	1340.592	1292.456	1249.314	1212.046	1181.268	1158.014	1144.198	1139.314
25	1123.078	1042.866	971.124	908.974	858.440	819.522	791.956	775.368	769.736
30	812.900	721.886	644.710	572.044	508.706	455.972	416.768	393.272	384.692
35	510.928	389.576	281.512	200.640	156.112	132.594	120.802	114.884	113.036
40	185.152	129.734	110.000	99.132	91.014	84.546	79.948	77.088	76.164
45	98.208	86.856	76.714	68.420	61.864	56.892	53.196	50.710	49.786
50	60.214	55.880	50.160	44.638	40.106	36.432	33.572	31.812	30.976
55	30.624	31.724	30.162	27.478	24.904	22.418	20.372	18.986	18.436
60	16.500	17.248	17.336	16.500	15.114	13.750	12.452	11.352	10.692

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CANDELA TABULATION - (Cont.)

65	11.154	10.890	10.692	10.142	9.504	8.580	7.568	6.732	6.270
70	8.756	8.030	7.480	6.820	6.182	5.434	4.796	4.048	3.696
75	7.018	6.270	5.632	4.972	4.334	3.696	3.036	2.574	2.024
80	5.632	4.884	4.334	3.696	3.234	2.574	2.112	1.474	1.100
85	4.422	3.784	3.146	2.772	2.222	1.848	1.386	0.836	0.374
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	683.07	N.A.	8.70
0-30	1263.46	N.A.	16.10
0-40	1727.45	N.A.	22.00
0-60	1891.42	N.A.	24.10
0-80	1915.79	N.A.	24.40
0-90	1923.06	N.A.	24.50
10-90	1726.41	N.A.	22.00
20-40	1044.38	N.A.	13.30
20-50	1182.35	N.A.	15.10
40-70	178.80	N.A.	2.30
60-80	24.37	N.A.	0.30
70-80	9.54	N.A.	0.10
80-90	7.28	N.A.	0.10
90-110	594.85	N.A.	7.60
90-120	1543.6	N.A.	19.70
90-130	2726.89	N.A.	34.70
90-150	4770.53	N.A.	60.70
90-180	5930.74	N.A.	75.50
110-180	5335.89	N.A.	67.90
0-180	7853.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	196.65
10-20	486.42
20-30	580.39
30-40	463.99
40-50	137.97
50-60	26.00
60-70	14.83
70-80	9.54
80-90	7.28
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

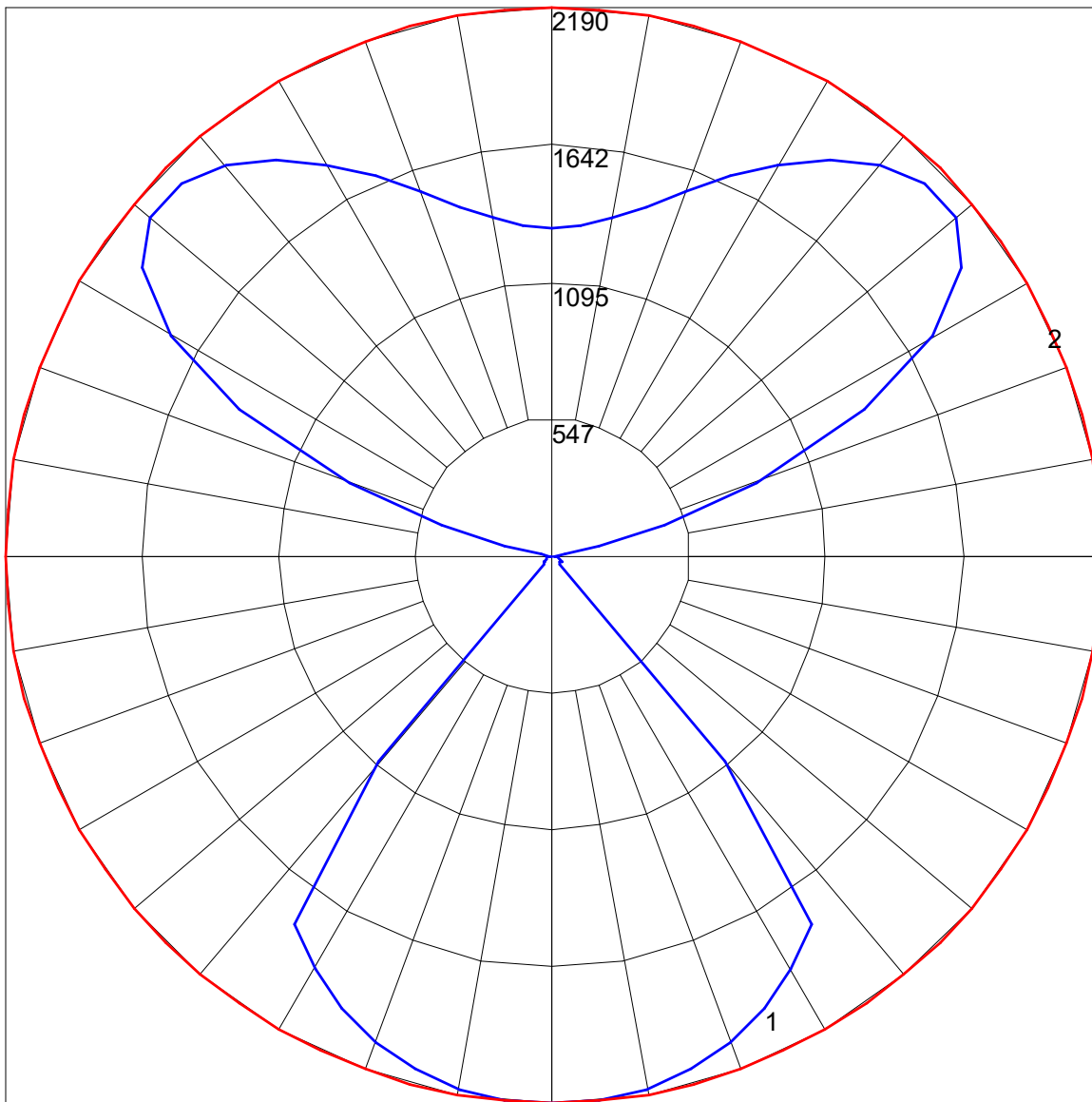
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	24
1	93	89	86	83	83	80	77	75	62	60	59	46	45	44	30	30	30	23
2	86	79	74	70	76	71	67	63	56	53	50	41	40	38	28	27	27	21
3	79	71	65	60	70	64	59	54	50	47	44	38	36	34	26	25	24	19
4	73	64	57	52	65	57	52	47	46	42	39	35	32	30	24	23	22	18
5	67	57	50	45	60	52	46	41	42	37	34	32	29	27	23	21	20	17
6	63	52	45	40	56	47	41	37	38	34	31	29	27	25	21	20	19	16
7	58	47	40	35	52	43	37	33	35	31	28	27	24	22	20	18	17	14
8	54	43	36	32	49	39	34	29	32	28	25	25	22	20	19	17	16	14
9	51	40	33	29	46	36	31	27	30	26	23	23	21	19	18	16	15	13
10	47	37	30	26	43	34	28	24	28	24	21	22	19	17	17	15	14	12

POLAR GRAPH



Maximum Candela = 2189.792 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.)