

**IES Report**

**DoubleBox™ | 107 | 120° Batwing, up | 40° Symmetric, down | 80 CRI | HO**

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-G1S1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	82	85	86	88
Total Lumens, 4' rail length (1219mm)	8028	8281	8450	8619
Lumens per foot (305mm)	2007	2070	2113	2155
Lumens per foot UP (305mm)	1401	1445	1475	1504
Lumens per foot DOWN (305mm)	606	625	638	651
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\_G1S1.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L011800103 (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-G1S1  
[LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board,  
[MORE] 120° batwing lens up with white polycarbonate reflectors/40° white 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	8450
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
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	2483	5143	47057
55	1558	2809	29190
65	1010	1615	17773
75	534	827	11060
85	29	119	3856

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	2424.400	2424.400	2424.400	2424.400	2424.400	2424.400	2424.400	2424.400	2424.400	2424.400
5	2307.588	2307.588	2307.588	2307.588	2309.792	2314.200	2316.404	2320.812	2327.424	2334.036
10	1979.192	1979.192	1983.600	1994.620	2010.048	2029.884	2054.128	2080.576	2111.432	2144.492
15	1522.964	1522.964	1538.392	1562.636	1595.696	1633.164	1681.652	1736.752	1802.872	1871.196
20	1055.716	1060.124	1084.368	1117.428	1157.100	1209.996	1273.912	1348.848	1430.396	1522.964
25	692.056	696.464	716.300	744.952	784.624	837.520	903.640	976.372	1068.940	1176.936
30	445.208	447.412	462.840	489.288	522.348	564.224	610.508	678.832	764.788	852.948
35	306.356	308.560	317.376	332.804	354.844	381.292	414.352	469.452	524.552	599.488
40	224.808	227.012	231.420	242.440	257.868	271.092	297.540	328.396	363.660	423.168
45	178.524	180.728	182.932	189.544	198.360	204.972	222.604	238.032	266.684	295.336
50	145.464	145.464	147.668	152.076	158.688	165.300	171.912	185.136	198.360	222.604
55	119.016	121.220	123.424	125.628	127.832	132.240	136.648	145.464	154.280	167.504
60	99.180	99.180	99.180	101.384	101.384	103.588	107.996	112.404	119.016	127.832
65	79.344	79.344	79.344	79.344	79.344	81.548	83.752	85.956	90.364	96.976
70	59.508	59.508	59.508	59.508	61.712	61.712	63.916	63.916	66.120	70.528
75	41.876	41.876	41.876	44.080	44.080	44.080	44.080	44.080	46.284	48.488
80	19.836	17.632	22.040	22.040	22.040	22.040	24.244	24.244	26.448	26.448
85	2.204	4.408	4.408	4.408	4.408	4.408	4.408	4.408	6.612	6.612
90	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204
95	92.568	92.568	90.364	90.364	92.568	92.568	96.976	99.180	103.588	103.588
100	315.172	284.316	290.928	290.928	290.928	288.724	286.520	284.316	277.704	273.296
105	544.388	504.716	511.328	513.532	511.328	511.328	506.920	498.104	489.288	469.452
110	802.256	784.624	747.156	742.748	749.360	751.564	742.748	731.728	700.872	676.628
115	1060.124	1057.920	1027.064	1002.820	994.004	989.596	982.984	967.556	943.312	901.436
120	1313.584	1309.176	1304.768	1284.932	1262.892	1245.260	1229.832	1209.996	1170.324	1113.020
125	1551.616	1547.208	1542.800	1536.188	1522.964	1496.516	1478.884	1430.396	1379.704	1306.972
130	1758.792	1754.384	1745.568	1732.344	1719.120	1694.876	1659.612	1608.920	1540.596	1448.028
135	1919.684	1915.276	1906.460	1888.828	1866.788	1840.340	1791.852	1741.160	1655.204	1564.840
140	2034.292	2027.680	2014.456	1994.620	1968.172	1935.112	1880.012	1811.688	1732.344	1628.756
145	2093.800	2084.984	2069.556	2047.516	2012.252	1970.376	1921.888	1840.340	1758.792	1661.816
150	2084.984	2078.372	2062.944	2032.088	1994.620	1948.336	1893.236	1822.708	1743.364	1657.408
155	2003.436	1994.620	1981.396	1952.744	1917.480	1873.400	1820.504	1765.404	1694.876	1624.348
160	1862.380	1857.972	1844.748	1824.912	1794.056	1758.792	1719.120	1670.632	1619.940	1571.452
165	1690.468	1688.264	1679.448	1666.224	1650.796	1626.552	1602.308	1573.656	1542.800	1507.536
170	1536.188	1533.984	1529.576	1525.168	1518.556	1509.740	1500.924	1487.700	1472.272	1459.048
175	1437.008	1437.008	1434.804	1434.804	1432.600	1430.396	1428.192	1425.988	1423.784	1421.580
180	1403.948	1403.948	1403.948	1403.948	1403.948	1403.948	1403.948	1403.948	1403.948	1403.948

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	2424.400	2424.400	2424.400	2424.400	2424.400	2424.400	2424.400	2424.400	2424.400
5	2340.648	2347.260	2356.076	2364.892	2373.708	2382.524	2391.340	2402.360	2413.380
10	2184.164	2226.040	2270.120	2285.548	2300.976	2318.608	2336.240	2356.076	2375.912
15	1937.316	1994.620	2058.536	2126.860	2204.000	2228.244	2254.692	2283.344	2314.200
20	1619.940	1721.324	1827.116	1910.868	2003.436	2102.616	2133.472	2168.736	2208.408
25	1293.748	1410.560	1531.780	1661.816	1772.016	1882.216	1965.968	2003.436	2049.720
30	965.352	1095.388	1225.424	1366.480	1511.944	1630.960	1754.384	1794.056	1844.748
35	696.464	804.460	934.496	1066.736	1212.200	1346.644	1470.068	1531.780	1580.268
40	484.880	577.448	676.628	789.032	919.068	1055.716	1168.120	1238.648	1280.524
45	346.028	403.332	482.676	575.244	676.628	780.216	877.192	949.924	985.188
50	249.052	288.724	343.824	409.944	484.880	564.224	636.956	692.056	716.300
55	187.340	211.584	244.644	288.724	341.620	396.720	447.412	487.084	506.920
60	141.056	156.484	178.524	207.176	240.236	275.500	310.764	337.212	350.436

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DB\_HO\_35\_G1S1.IES**

**CANDELA TABULATION - (Cont.)**

<b>65</b>	105.792	114.608	130.036	147.668	169.708	193.952	213.788	229.216	235.828
<b>70</b>	74.936	81.548	90.364	101.384	114.608	127.832	143.260	167.504	167.504
<b>75</b>	50.692	55.100	59.508	66.120	72.732	81.548	85.956	92.568	96.976
<b>80</b>	28.652	30.856	33.060	35.264	39.672	41.876	46.284	48.488	50.692
<b>85</b>	8.816	8.816	11.020	11.020	15.428	15.428	15.428	15.428	15.428
<b>90</b>	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204
<b>95</b>	96.976	88.160	79.344	70.528	61.712	59.508	55.100	55.100	57.304
<b>100</b>	257.868	233.624	209.380	191.748	178.524	171.912	169.708	167.504	167.504
<b>105</b>	438.596	398.924	359.252	321.784	297.540	288.724	279.908	275.500	279.908
<b>110</b>	634.752	581.856	522.348	471.656	438.596	418.760	407.740	401.128	401.128
<b>115</b>	830.908	749.360	683.240	619.324	575.244	546.592	531.164	524.552	522.348
<b>120</b>	1035.880	938.904	839.724	758.176	700.872	667.812	650.180	641.364	641.364
<b>125</b>	1203.384	1090.980	978.576	881.600	815.480	773.604	749.360	738.340	736.136
<b>130</b>	1344.440	1221.016	1104.204	1002.820	927.884	883.804	855.152	839.724	835.316
<b>135</b>	1443.620	1324.604	1205.588	1106.408	1029.268	978.576	947.720	932.292	925.680
<b>140</b>	1518.556	1399.540	1289.340	1190.160	1119.632	1064.532	1033.676	1013.840	1005.024
<b>145</b>	1553.820	1450.232	1351.052	1262.892	1194.568	1143.876	1110.816	1093.184	1084.368
<b>150</b>	1567.044	1476.680	1390.724	1320.196	1256.280	1216.608	1179.140	1168.120	1159.304
<b>155</b>	1551.616	1481.088	1414.968	1353.256	1311.380	1273.912	1247.464	1234.240	1225.424
<b>160</b>	1520.760	1467.864	1417.172	1384.112	1351.052	1317.992	1306.972	1295.952	1287.136
<b>165</b>	1474.476	1450.232	1423.784	1397.336	1373.092	1362.072	1353.256	1344.440	1337.828
<b>170</b>	1443.620	1425.988	1410.560	1403.948	1397.336	1390.724	1384.112	1379.704	1373.092
<b>175</b>	1419.376	1417.172	1414.968	1412.764	1408.356	1406.152	1403.948	1401.744	1397.336
<b>180</b>	1403.948	1403.948	1403.948	1403.948	1403.948	1403.948	1403.948	1403.948	1403.948

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DB\_HO\_35\_G1S1.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	743.01	N.A.	8.80
0-30	1326.9	N.A.	15.70
0-40	1807.93	N.A.	21.40
0-60	2352.74	N.A.	27.80
0-80	2538.69	N.A.	30.00
0-90	2552.22	N.A.	30.20
10-90	2334.24	N.A.	27.60
20-40	1064.92	N.A.	12.60
20-50	1398.94	N.A.	16.60
40-70	669.33	N.A.	7.90
60-80	185.95	N.A.	2.20
70-80	61.43	N.A.	0.70
80-90	13.53	N.A.	0.20
90-110	561.93	N.A.	6.70
90-120	1371.69	N.A.	16.20
90-130	2440.42	N.A.	28.90
90-150	4584.69	N.A.	54.30
90-180	5897.85	N.A.	69.80
110-180	5335.92	N.A.	63.10
0-180	8450.07	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	217.98
10-20	525.03
20-30	583.89
30-40	481.03
40-50	334.02
50-60	210.79
60-70	124.52
70-80	61.43
80-90	13.53
90-100	112.42
100-110	449.52
110-120	809.75
120-130	1068.73
130-140	1134.56
140-150	1009.7
150-160	746.04
160-170	430.41
170-180	136.71

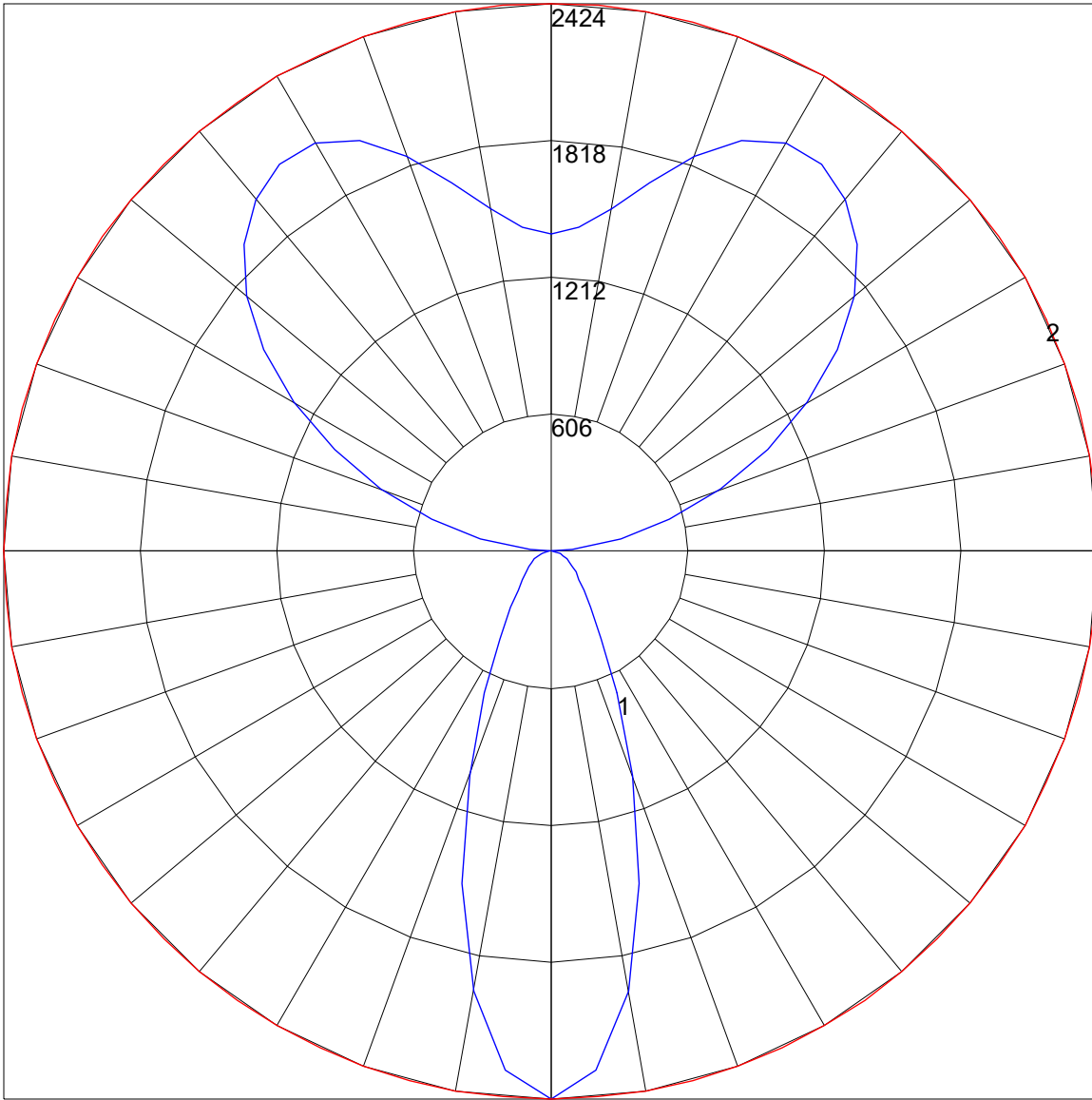
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DB\_HO\_35\_G1S1.IES**

**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	92	92	92	92	72	72	72	54	54	54	38	38	38	30
1	94	90	87	84	85	81	78	76	65	63	61	49	48	47	35	34	34	27
2	87	80	74	70	78	72	68	64	58	55	52	44	42	41	32	31	30	24
3	80	71	65	59	71	64	59	54	52	48	45	40	38	35	29	28	27	22
4	73	64	56	51	66	58	52	47	47	42	39	36	34	31	27	25	24	20
5	68	57	50	44	61	52	46	41	42	38	34	33	30	28	25	23	21	18
6	63	52	44	39	56	47	41	36	38	34	31	30	27	25	23	21	20	16
7	58	47	40	35	52	43	37	32	35	31	27	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	39	33	28	46	36	30	26	30	25	22	24	21	19	19	17	15	13
10	47	36	30	25	43	33	28	24	28	23	20	22	19	17	17	15	14	12

POLAR GRAPH



Maximum Candela = 2424.4 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.)