

IES Report

DoubleBox™ | 107 | 120° 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	86	89	91	93
Total Lumens, 4' rail length (1219mm)	8459	8726	8904	9082
Lumens per foot (305mm)	2115	2181	2226	2270
Lumens per foot UP (305mm)	1366	1409	1438	1467
Lumens per foot DOWN (305mm)	749	773	788	804
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_G1WB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L011800101 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 1/9/2018
[MANUFAC] Vode Lighting
[LUMCAT] 107-DB-48-Z-HO-35-G1WB
[LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board,
[MORE] 120° batwing lens up with white polycarbonate reflectors/white baffle down, high output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8904
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
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	3740	9634	20844
55	2972	4916	16245
65	2160	2607	13122
75	619	978	7793
85	145	199	2204

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	2510.356	2510.356	2510.356	2510.356	2510.356	2510.356	2510.356	2510.356	2510.356	2510.356
5	2503.744	2492.724	2481.704	2470.684	2459.664	2448.644	2437.624	2428.808	2419.992	2411.176
10	2477.296	2453.052	2431.012	2408.972	2389.136	2369.300	2351.668	2318.608	2287.752	2261.304
15	2431.012	2397.952	2364.892	2334.036	2298.772	2245.876	2195.184	2151.104	2109.228	2067.352
20	2360.484	2316.404	2276.732	2230.448	2157.716	2091.596	2025.476	1961.560	1902.052	1846.952
25	2263.508	2210.612	2159.920	2080.576	2001.232	1919.684	1838.136	1763.200	1677.244	1597.900
30	2148.900	2089.392	2021.068	1919.684	1820.504	1725.732	1628.756	1527.372	1428.192	1333.420
35	2001.232	1935.112	1842.544	1730.140	1617.736	1505.332	1392.928	1273.912	1159.304	1044.696
40	919.068	903.640	908.048	958.740	1055.716	1161.508	1090.980	974.168	870.580	755.972
45	268.888	301.948	363.660	407.740	420.964	434.188	584.060	625.936	588.468	553.204
50	242.440	251.256	264.480	279.908	299.744	326.192	352.640	383.496	394.516	396.720
55	227.012	231.420	238.032	246.848	255.664	271.092	284.316	286.520	290.928	293.132
60	211.584	209.380	207.176	204.972	204.972	207.176	211.584	213.788	215.992	218.196
65	169.708	167.504	158.688	152.076	147.668	145.464	147.668	147.668	152.076	156.484
70	99.180	99.180	96.976	94.772	94.772	92.568	94.772	94.772	96.976	99.180
75	48.488	48.488	50.692	50.692	50.692	50.692	50.692	50.692	55.100	57.304
80	28.652	28.652	26.448	26.448	26.448	26.448	24.244	24.244	24.244	26.448
85	11.020	13.224	13.224	11.020	11.020	11.020	11.020	11.020	11.020	11.020
90	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204
95	83.752	92.568	88.160	90.364	90.364	92.568	94.772	99.180	105.792	101.384
100	306.356	275.500	284.316	286.520	284.316	284.316	284.316	279.908	275.500	268.888
105	537.776	500.308	504.716	506.920	504.716	502.512	498.104	493.696	484.880	465.044
110	793.440	778.012	740.544	738.340	742.748	747.156	738.340	716.300	700.872	672.220
115	1046.900	1046.900	1018.248	994.004	982.984	980.780	974.168	956.536	932.292	892.620
120	1295.952	1293.748	1289.340	1269.504	1249.668	1229.832	1214.404	1196.772	1154.896	1095.388
125	1525.168	1522.964	1518.556	1511.944	1500.924	1474.476	1454.640	1406.152	1355.460	1284.932
130	1723.528	1721.324	1712.508	1701.488	1686.060	1661.816	1626.552	1578.064	1509.740	1419.376
135	1882.216	1877.808	1866.788	1851.360	1831.524	1805.076	1756.588	1705.896	1619.940	1531.780
140	1994.620	1990.212	1976.988	1957.152	1930.704	1899.848	1842.544	1776.424	1697.080	1591.288
145	2058.536	2049.720	2034.292	2010.048	1976.988	1935.112	1884.420	1805.076	1721.324	1622.144
150	2051.924	2043.108	2025.476	1996.824	1959.356	1910.868	1857.972	1785.240	1703.692	1613.328
155	1965.968	1957.152	1943.928	1915.276	1877.808	1831.524	1778.628	1721.324	1648.592	1575.860
160	1820.504	1816.096	1800.668	1778.628	1747.772	1712.508	1670.632	1619.940	1567.044	1518.556
165	1644.184	1639.776	1628.756	1615.532	1600.104	1575.860	1547.208	1518.556	1487.700	1450.232
170	1483.292	1481.088	1476.680	1470.068	1463.456	1454.640	1443.620	1430.396	1414.968	1399.540
175	1379.704	1379.704	1377.500	1377.500	1375.296	1373.092	1370.888	1368.684	1366.480	1364.276
180	1346.644	1346.644	1346.644	1346.644	1346.644	1346.644	1346.644	1346.644	1346.644	1346.644

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	2510.356	2510.356	2510.356	2510.356	2510.356	2510.356	2510.356	2510.356	2510.356
5	2404.564	2397.952	2391.340	2386.932	2382.524	2378.116	2375.912	2375.912	2375.912
10	2234.856	2215.020	2195.184	2175.348	2159.920	2146.696	2137.880	2129.064	2129.064
15	2027.680	1990.212	1957.152	1930.704	1908.664	1888.828	1873.400	1862.380	1860.176
20	1791.852	1738.956	1694.876	1653.000	1617.736	1589.084	1567.044	1551.616	1547.208
25	1527.372	1461.252	1401.744	1351.052	1306.972	1271.708	1245.260	1221.016	1214.404
30	1245.260	1161.508	1077.756	1007.228	949.924	905.844	877.192	841.928	828.704
35	932.292	826.500	769.196	729.524	698.668	674.424	656.792	643.568	639.160
40	687.648	628.140	597.284	577.448	559.816	544.388	535.572	528.960	528.960
45	524.552	500.308	482.676	469.452	458.432	447.412	440.800	436.392	436.392
50	403.332	394.516	383.496	376.884	370.272	361.456	357.048	352.640	350.436
55	299.744	297.540	297.540	295.336	290.928	288.724	284.316	284.316	282.112
60	220.400	222.604	224.808	224.808	224.808	224.808	222.604	222.604	222.604

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CANDELA TABULATION - (Cont.)

65	158.688	165.300	165.300	165.300	165.300	169.708	176.320	174.116	174.116
70	103.588	105.792	110.200	112.404	112.404	114.608	116.812	114.608	114.608
75	59.508	61.712	63.916	66.120	68.324	68.324	70.528	68.324	68.324
80	28.652	28.652	30.856	30.856	33.060	33.060	33.060	33.060	33.060
85	11.020	11.020	11.020	11.020	11.020	8.816	11.020	8.816	8.816
90	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204
95	94.772	85.956	74.936	68.324	61.712	57.304	52.896	52.896	52.896
100	253.460	227.012	204.972	187.340	176.320	169.708	165.300	163.096	165.300
105	431.984	392.312	348.232	312.968	286.520	275.500	273.296	268.888	264.480
110	628.140	570.836	506.920	456.228	420.964	401.128	392.312	390.108	387.904
115	819.888	738.340	663.404	597.284	551.000	524.552	511.328	504.716	502.512
120	1018.248	916.864	813.276	727.320	672.220	641.364	623.732	614.916	612.712
125	1179.140	1062.328	947.720	846.336	784.624	747.156	727.320	716.300	714.096
130	1313.584	1185.752	1068.940	967.556	892.620	846.336	817.684	804.460	802.256
135	1408.356	1284.932	1165.916	1066.736	987.392	934.496	905.844	888.212	883.804
140	1481.088	1357.664	1245.260	1146.080	1073.348	1016.044	985.188	967.556	958.740
145	1511.944	1406.152	1304.768	1214.404	1146.080	1095.388	1060.124	1042.492	1033.676
150	1520.760	1428.192	1340.032	1267.300	1203.384	1163.712	1126.244	1113.020	1104.204
155	1498.720	1428.192	1362.072	1298.156	1256.280	1218.812	1190.160	1176.936	1168.120
160	1465.660	1412.764	1362.072	1326.808	1293.748	1260.688	1247.464	1236.444	1225.424
165	1417.172	1390.724	1364.276	1340.032	1311.380	1302.564	1291.544	1282.728	1276.116
170	1384.112	1366.480	1351.052	1344.440	1335.624	1329.012	1324.604	1317.992	1311.380
175	1359.868	1357.664	1355.460	1351.052	1348.848	1344.440	1342.236	1340.032	1335.624
180	1346.644	1346.644	1346.644	1346.644	1346.644	1346.644	1346.644	1346.644	1346.644

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	814.76	N.A.	9.20
0-30	1571.61	N.A.	17.70
0-40	2269.02	N.A.	25.50
0-60	2914.2	N.A.	32.70
0-80	3138.19	N.A.	35.20
0-90	3152.56	N.A.	35.40
10-90	2925.56	N.A.	32.90
20-40	1454.26	N.A.	16.30
20-50	1849.57	N.A.	20.80
40-70	803.62	N.A.	9.00
60-80	223.99	N.A.	2.50
70-80	65.56	N.A.	0.70
80-90	14.37	N.A.	0.20
90-110	551.98	N.A.	6.20
90-120	1347.34	N.A.	15.10
90-130	2392.73	N.A.	26.90
90-150	4481.52	N.A.	50.30
90-180	5751.35	N.A.	64.60
110-180	5199.38	N.A.	58.40
0-180	8903.91	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	227.00
10-20	587.77
20-30	756.84
30-40	697.41
40-50	395.31
50-60	249.87
60-70	158.43
70-80	65.56
80-90	14.37
90-100	110.24
100-110	441.74
110-120	795.36
120-130	1045.4
130-140	1105.44
140-150	983.34
150-160	723.93
160-170	414.76
170-180	131.14

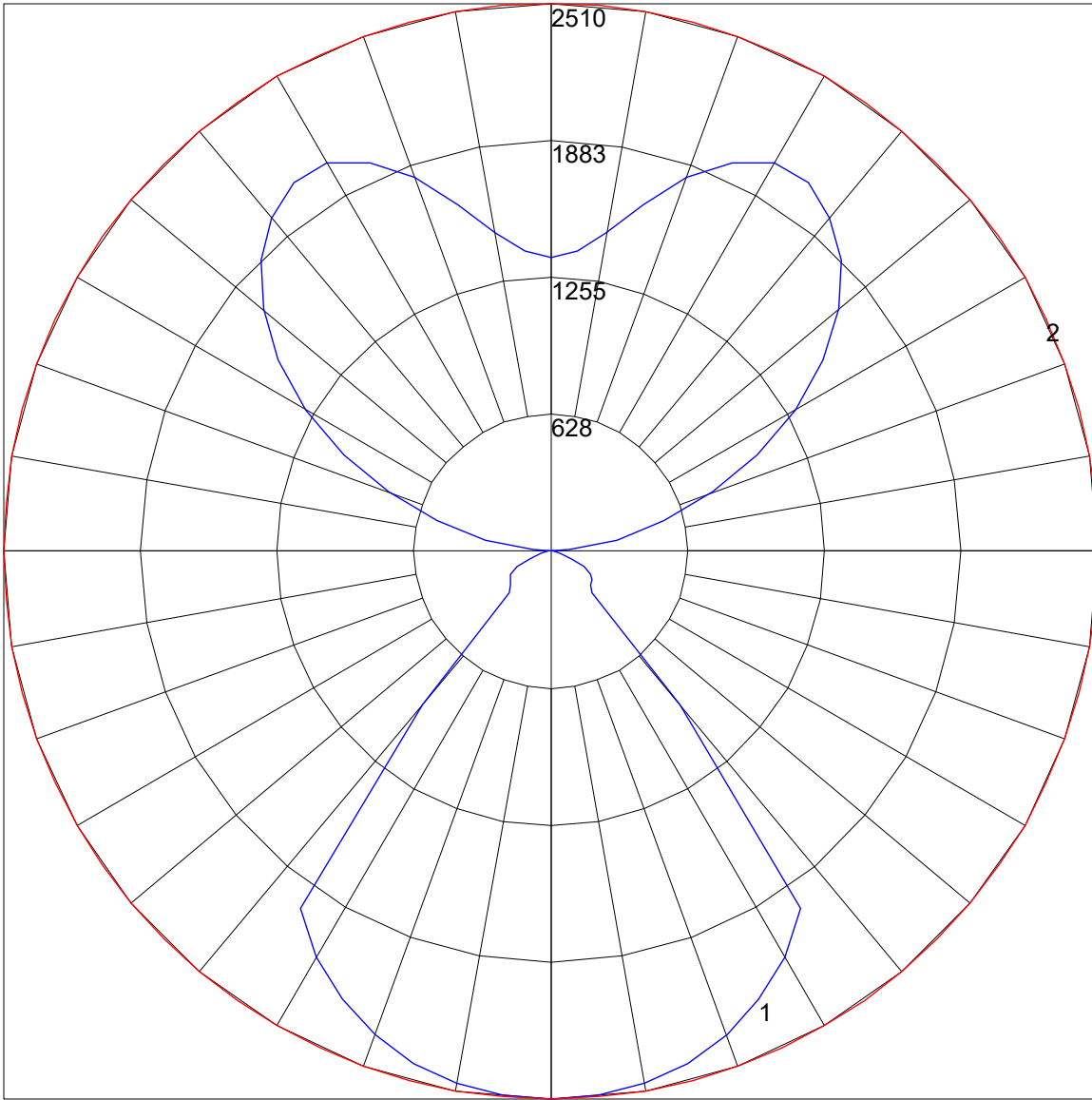
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35
1	95	92	88	85	86	83	80	78	67	65	64	53	52	50	39	39	38	32
2	88	81	76	71	79	74	69	66	60	57	54	48	46	44	36	35	34	28
3	81	72	66	61	73	66	60	56	54	50	47	43	40	38	33	31	30	25
4	74	65	58	52	67	59	53	49	49	45	41	39	36	34	30	28	27	23
5	69	58	51	46	62	53	47	42	44	40	36	36	33	30	28	26	24	21
6	64	53	45	40	58	49	42	37	40	36	32	33	30	27	26	24	22	19
7	59	48	41	36	54	44	38	33	37	32	29	30	27	24	24	22	20	17
8	55	44	37	32	50	40	34	30	34	29	26	28	25	22	22	20	18	16
9	52	40	33	29	47	37	31	27	31	27	24	26	23	20	21	19	17	15
10	48	37	30	26	44	34	29	25	29	25	22	24	21	19	19	17	16	14

POLAR GRAPH



Maximum Candela = 2510.356 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.)