

IES Report

DoubleBox™ | 107 | 120° 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	88	91	93	95
Total Lumens, 4' rail length (1219mm)	8649	8922	9104	9286
Lumens per foot (305mm)	2162	2231	2276	2322
Lumens per foot UP (305mm)	1412	1456	1486	1516
Lumens per foot DOWN (305mm)	751	775	790	806
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_G1S2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L011800104 (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-G1S2
 [LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board,
 [MORE] 120° batwing lens up with white polycarbonate reflectors/60° 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	9104
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
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	3832	9288	43688
55	2106	4472	29825
65	1290	2276	20099
75	703	1091	12820
85	29	119	4958

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	2281.140	2281.140	2281.140	2281.140	2281.140	2281.140	2281.140	2281.140	2281.140	2281.140
5	2250.284	2250.284	2248.080	2250.284	2250.284	2250.284	2250.284	2250.284	2252.488	2252.488
10	2146.696	2144.492	2144.492	2148.900	2151.104	2157.716	2164.328	2168.736	2173.144	2179.756
15	1941.724	1941.724	1950.540	1961.560	1974.784	1983.600	1999.028	2016.660	2038.700	2062.944
20	1641.980	1639.776	1655.204	1672.836	1690.468	1719.120	1756.588	1798.464	1846.952	1880.012
25	1280.524	1276.116	1289.340	1315.788	1353.256	1399.540	1459.048	1527.372	1578.064	1633.164
30	905.844	910.252	932.292	967.556	1013.840	1071.144	1135.060	1201.180	1276.116	1348.848
35	599.488	610.508	636.956	674.424	718.504	762.584	815.480	888.212	965.352	1044.696
40	396.720	407.740	429.780	458.432	493.696	522.348	570.836	628.140	685.444	766.992
45	275.500	286.520	299.744	319.580	337.212	357.048	398.924	431.984	484.880	533.368
50	207.176	211.584	218.196	231.420	240.236	255.664	277.704	304.152	337.212	376.884
55	160.892	163.096	169.708	176.320	180.728	189.544	200.564	220.400	240.236	266.684
60	127.832	130.036	134.444	136.648	138.852	143.260	149.872	158.688	174.116	191.748
65	101.384	103.588	103.588	103.588	105.792	107.996	112.404	119.016	127.832	136.648
70	77.140	79.344	77.140	77.140	79.344	81.548	83.752	85.956	90.364	96.976
75	55.100	52.896	55.100	55.100	55.100	57.304	57.304	59.508	61.712	63.916
80	24.244	22.040	26.448	26.448	26.448	26.448	28.652	30.856	33.060	35.264
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	74.936	96.976	94.772	96.976	99.180	103.588	112.404	114.608	110.200	112.404
100	323.988	301.948	306.356	306.356	308.560	306.356	306.356	304.152	297.540	286.520
105	564.224	535.572	535.572	539.980	537.776	535.572	528.960	520.144	509.124	484.880
110	817.684	808.868	782.420	778.012	780.216	773.604	762.584	760.380	731.728	698.668
115	1082.164	1084.368	1064.532	1044.696	1033.676	1031.472	1018.248	1000.616	974.168	923.476
120	1340.032	1340.032	1337.828	1322.400	1304.768	1287.136	1267.300	1245.260	1198.976	1130.652
125	1578.064	1575.860	1573.656	1567.044	1556.024	1529.576	1507.536	1454.640	1399.540	1317.992
130	1780.832	1778.628	1769.812	1756.588	1741.160	1714.712	1675.040	1622.144	1547.208	1450.232
135	1937.316	1935.112	1924.092	1906.460	1884.420	1853.564	1800.668	1747.772	1657.408	1564.840
140	2047.516	2043.108	2027.680	2005.640	1976.988	1941.724	1884.420	1816.096	1732.344	1624.348
145	2104.820	2098.208	2080.576	2056.332	2018.864	1974.784	1921.888	1840.340	1754.384	1655.204
150	2096.004	2084.984	2069.556	2038.700	1999.028	1950.540	1893.236	1822.708	1738.956	1650.796
155	2007.844	1999.028	1985.804	1954.948	1917.480	1871.196	1818.300	1760.996	1690.468	1615.532
160	1864.584	1860.176	1844.748	1824.912	1791.852	1754.384	1712.508	1664.020	1613.328	1564.840
165	1690.468	1686.060	1675.040	1664.020	1646.388	1622.144	1595.696	1564.840	1533.984	1498.720
170	1533.984	1531.780	1527.372	1520.760	1514.148	1505.332	1496.516	1483.292	1467.864	1452.436
175	1434.804	1434.804	1434.804	1432.600	1430.396	1428.192	1425.988	1423.784	1421.580	1419.376
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	2281.140	2281.140	2281.140	2281.140	2281.140	2281.140	2281.140	2281.140	2281.140
5	2254.692	2256.896	2256.896	2259.100	2261.304	2263.508	2265.712	2267.916	2272.324
10	2188.572	2199.592	2210.612	2210.612	2212.816	2217.224	2219.428	2223.836	2230.448
15	2080.576	2091.596	2104.820	2118.044	2135.676	2137.880	2142.288	2148.900	2155.512
20	1910.868	1941.724	1972.580	1985.804	2001.232	2021.068	2025.476	2029.884	2038.700
25	1697.080	1741.160	1774.220	1813.892	1831.524	1849.156	1864.584	1866.788	1877.808
30	1419.376	1487.700	1545.004	1580.268	1622.144	1635.368	1657.408	1659.612	1672.836
35	1128.448	1207.792	1271.708	1324.604	1362.072	1390.724	1408.356	1414.968	1425.988
40	844.132	923.476	991.800	1053.512	1097.592	1135.060	1148.284	1157.100	1161.508
45	606.100	672.220	736.136	793.440	839.724	883.804	901.436	910.252	914.660
50	420.964	480.472	539.980	588.468	621.528	643.568	658.996	670.016	670.016
55	299.744	337.212	379.088	423.168	454.024	480.472	500.308	511.328	517.940
60	213.788	233.624	266.684	297.540	323.988	346.028	361.456	370.272	374.680

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CANDELA TABULATION - (Cont.)

65	152.076	169.708	187.340	209.380	229.216	242.440	253.460	260.072	266.684
70	105.792	116.812	127.832	141.056	154.280	165.300	174.116	187.340	193.952
75	68.324	74.936	81.548	88.160	96.976	103.588	107.996	110.200	112.404
80	37.468	41.876	44.080	48.488	50.692	55.100	55.100	57.304	57.304
85	8.816	11.020	13.224	13.224	17.632	19.836	19.836	19.836	19.836
90	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204
95	103.588	92.568	81.548	70.528	63.916	59.508	52.896	55.100	55.100
100	264.480	238.032	209.380	189.544	178.524	171.912	169.708	165.300	167.504
105	449.616	407.740	361.456	321.784	299.744	286.520	282.112	277.704	277.704
110	652.384	590.672	524.552	471.656	436.392	420.964	407.740	403.332	405.536
115	852.948	762.584	685.444	619.324	573.040	546.592	528.960	522.348	524.552
120	1044.696	941.108	839.724	753.768	696.464	665.608	650.180	641.364	636.956
125	1205.588	1086.572	974.168	874.988	806.664	769.196	749.360	740.544	733.932
130	1340.032	1216.608	1097.592	996.208	921.272	874.988	848.540	835.316	830.908
135	1439.212	1317.992	1196.772	1097.592	1022.656	969.760	941.108	923.476	919.068
140	1511.944	1392.928	1280.524	1181.344	1110.816	1055.716	1022.656	1005.024	998.412
145	1547.208	1443.620	1342.236	1254.076	1185.752	1135.060	1102.000	1084.368	1075.552
150	1558.228	1467.864	1379.704	1309.176	1245.260	1207.792	1172.528	1159.304	1150.488
155	1542.800	1472.272	1406.152	1344.440	1300.360	1265.096	1238.648	1225.424	1216.608
160	1511.944	1459.048	1408.356	1375.296	1342.236	1309.176	1298.156	1287.136	1278.320
165	1465.660	1441.416	1414.968	1388.520	1364.276	1353.256	1344.440	1337.828	1331.216
170	1437.008	1419.376	1403.948	1397.336	1390.724	1384.112	1377.500	1373.092	1366.480
175	1417.172	1414.968	1410.560	1408.356	1406.152	1403.948	1399.540	1397.336	1395.132
180	1403.948	1403.948	1403.948	1403.948	1403.948	1403.948	1403.948	1403.948	1403.948

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	786.29	N.A.	8.60
0-30	1518.76	N.A.	16.70
0-40	2168.94	N.A.	23.80
0-60	2902.05	N.A.	31.90
0-80	3144.83	N.A.	34.50
0-90	3161.21	N.A.	34.70
10-90	2948.17	N.A.	32.40
20-40	1382.65	N.A.	15.20
20-50	1835.45	N.A.	20.20
40-70	896.59	N.A.	9.80
60-80	242.78	N.A.	2.70
70-80	79.30	N.A.	0.90
80-90	16.38	N.A.	0.20
90-110	580.92	N.A.	6.40
90-120	1408.7	N.A.	15.50
90-130	2488.52	N.A.	27.30
90-150	4633.98	N.A.	50.90
90-180	5942.95	N.A.	65.30
110-180	5362.02	N.A.	58.90
0-180	9104.15	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	213.04
10-20	573.25
20-30	732.47
30-40	650.19
40-50	452.80
50-60	280.30
60-70	163.48
70-80	79.30
80-90	16.38
90-100	117.45
100-110	463.47
110-120	827.78
120-130	1079.82
130-140	1136.84
140-150	1008.62
150-160	743.91
160-170	428.66
170-180	136.40

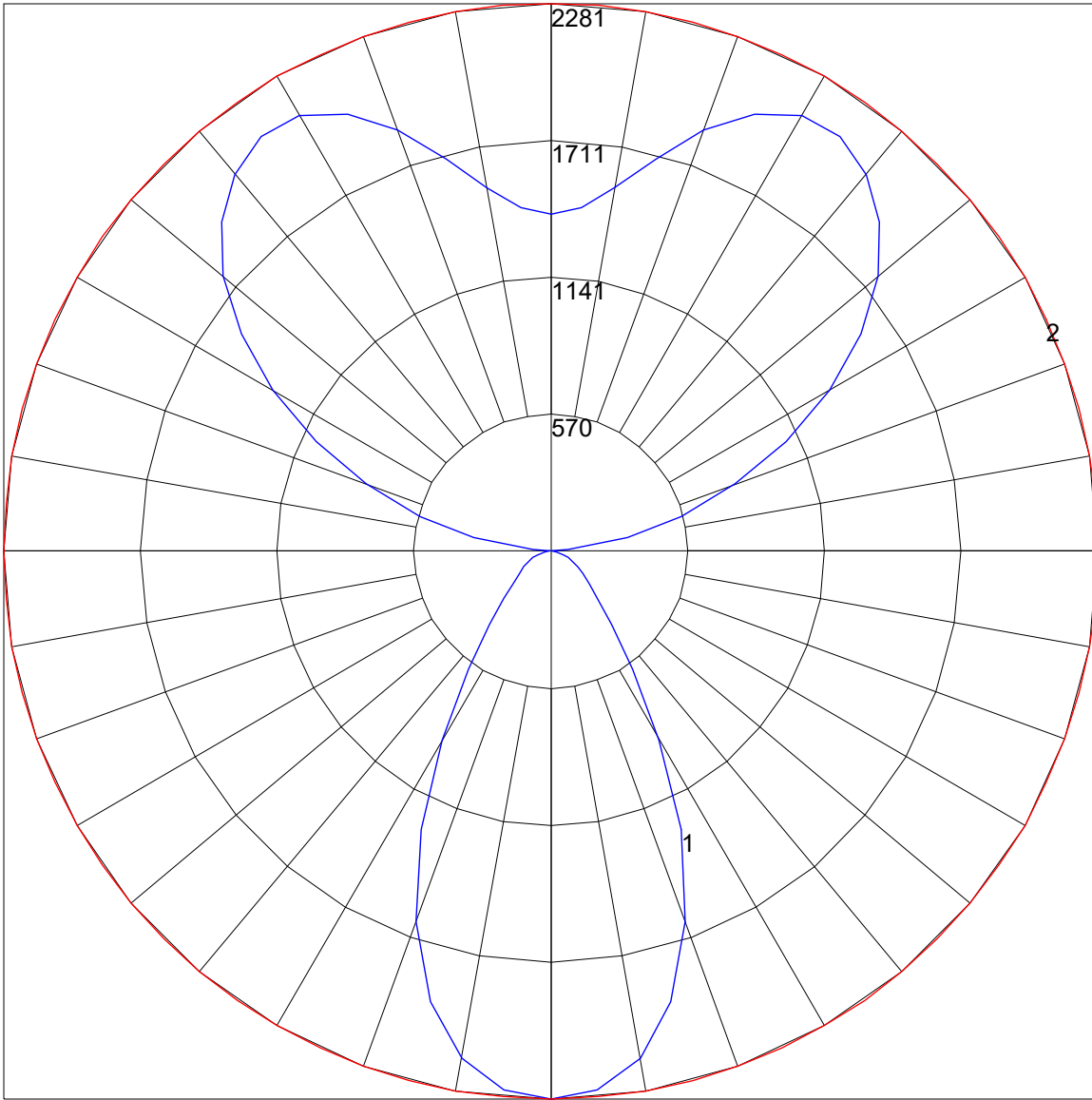
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	75	75	75	58	58	58	42	42	42	35
1	95	91	88	85	86	83	80	77	67	65	63	52	51	50	39	38	37	31
2	87	81	75	71	79	74	69	65	60	56	54	47	45	43	35	34	33	28
3	80	72	65	60	73	66	60	55	53	50	46	42	40	38	32	30	29	25
4	74	64	57	52	67	59	53	48	48	44	40	38	35	33	29	27	26	22
5	68	58	50	45	62	53	47	42	44	39	36	35	32	29	27	25	23	20
6	63	52	45	40	57	48	41	37	40	35	32	32	29	26	25	23	21	18
7	59	47	40	35	53	44	37	33	36	32	28	29	26	24	23	21	19	17
8	55	43	36	31	50	40	34	29	33	29	25	27	24	21	21	19	18	15
9	51	40	33	28	46	37	31	26	31	26	23	25	22	20	20	18	16	14
10	48	37	30	25	44	34	28	24	29	24	21	23	20	18	19	17	15	13

POLAR GRAPH



Maximum Candela = 2281.14 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.)