

IES Report

DoubleBox™ | 107 | 120° Batwing, up | Diffuse, down | 80 CRI | HO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-G12-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	113	117	119	121
Total Lumens, 4' rail length (1219mm)	11073	11423	11656	11889
Lumens per foot (305mm)	2768	2856	2914	2972
Lumens per foot UP (305mm)	1432	1478	1508	1538
Lumens per foot DOWN (305mm)	1336	1378	1406	1435
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_G12.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB
[ISSUEDATE] 1/9/2018
[MANUFAC] Vode Lighting
[LUMCAT] 107-DB-48-Z-HO-35-G12
[LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board,
[MORE] 120° batwing lens up with white polycarbonate reflectors/diffuse 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	11656
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	98.44
Ballast Factor	1.00
CIE Type	General Diffuse
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	18303	23298	64743
55	11944	15892	55334
65	6844	9545	45513
75	2672	4588	35444
85	291	636	22036

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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	2347.260	2347.260	2347.260	2347.260	2347.260	2347.260	2347.260	2347.260	2347.260	2347.260
5	2334.036	2331.832	2331.832	2329.628	2329.628	2329.628	2329.628	2327.424	2327.424	2327.424
10	2292.160	2289.956	2289.956	2287.752	2287.752	2289.956	2289.956	2287.752	2287.752	2287.752
15	2223.836	2221.632	2219.428	2221.632	2221.632	2219.428	2219.428	2219.428	2223.836	2223.836
20	2129.064	2124.656	2126.860	2126.860	2124.656	2124.656	2126.860	2126.860	2129.064	2131.268
25	2007.844	2003.436	2005.640	2003.436	2005.640	2005.640	2005.640	2012.252	2010.048	2010.048
30	1862.380	1860.176	1860.176	1860.176	1860.176	1862.380	1866.788	1866.788	1866.788	1868.992
35	1697.080	1694.876	1692.672	1694.876	1694.876	1697.080	1701.488	1699.284	1703.692	1705.896
40	1511.944	1511.944	1511.944	1511.944	1514.148	1516.352	1518.556	1520.760	1522.964	1527.372
45	1315.788	1317.992	1317.992	1317.992	1320.196	1322.400	1326.808	1333.420	1331.216	1337.828
50	1115.224	1115.224	1115.224	1117.428	1121.836	1124.040	1130.652	1132.856	1137.264	1141.672
55	912.456	912.456	916.864	919.068	921.272	923.476	930.088	934.496	941.108	947.720
60	722.912	722.912	722.912	718.504	718.504	718.504	725.116	729.524	742.748	753.768
65	537.776	539.980	531.164	526.756	528.960	533.368	542.184	553.204	564.224	573.040
70	368.068	361.456	354.844	357.048	368.068	374.680	381.292	390.108	401.128	412.148
75	209.380	198.360	207.176	211.584	218.196	224.808	233.624	244.644	255.664	268.888
80	85.956	83.752	85.956	90.364	92.568	96.976	105.792	116.812	125.628	143.260
85	22.040	24.244	24.244	24.244	24.244	24.244	24.244	26.448	30.856	35.264
90	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204
95	81.548	92.568	94.772	96.976	101.384	103.588	107.996	116.812	110.200	110.200
100	330.600	301.948	308.560	310.764	310.764	308.560	306.356	304.152	297.540	284.316
105	573.040	533.368	539.980	542.184	539.980	537.776	531.164	522.348	511.328	489.288
110	830.908	813.276	782.420	780.216	784.624	775.808	762.584	758.176	738.340	707.484
115	1095.388	1095.388	1066.736	1042.492	1033.676	1027.064	1018.248	1000.616	976.372	932.292
120	1353.256	1351.052	1344.440	1324.604	1304.768	1287.136	1269.504	1249.668	1203.384	1141.672
125	1586.880	1584.676	1580.268	1571.452	1560.432	1533.984	1514.148	1463.456	1408.356	1333.420
130	1789.648	1785.240	1776.424	1763.200	1749.976	1723.528	1688.264	1637.572	1567.044	1474.476
135	1948.336	1946.132	1935.112	1917.480	1895.440	1868.992	1820.504	1772.016	1683.856	1595.696
140	2065.148	2060.740	2047.516	2027.680	2001.232	1968.172	1915.276	1846.952	1767.608	1661.816
145	2133.472	2124.656	2109.228	2087.188	2051.924	2010.048	1961.560	1880.012	1794.056	1694.876
150	2131.268	2122.452	2104.820	2076.168	2038.700	1990.212	1935.112	1862.380	1778.628	1688.264
155	2047.516	2038.700	2023.272	1994.620	1959.356	1913.072	1860.176	1802.872	1727.936	1653.000
160	1902.052	1897.644	1882.216	1862.380	1829.320	1791.852	1749.976	1699.284	1646.388	1597.900
165	1723.528	1719.120	1708.100	1697.080	1679.448	1655.204	1626.552	1597.900	1564.840	1529.576
170	1560.432	1558.228	1553.820	1547.208	1540.596	1531.780	1520.760	1507.536	1494.312	1478.884
175	1456.844	1456.844	1454.640	1452.436	1452.436	1450.232	1448.028	1445.824	1443.620	1441.416
180	1423.784	1423.784	1423.784	1423.784	1423.784	1423.784	1423.784	1423.784	1423.784	1423.784

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	2347.260	2347.260	2347.260	2347.260	2347.260	2347.260	2347.260	2347.260	2347.260
5	2327.424	2329.628	2329.628	2329.628	2329.628	2331.832	2331.832	2331.832	2334.036
10	2287.752	2289.956	2292.160	2289.956	2289.956	2289.956	2289.956	2292.160	2294.364
15	2223.836	2223.836	2223.836	2223.836	2228.244	2226.040	2226.040	2228.244	2230.448
20	2131.268	2131.268	2133.472	2131.268	2133.472	2137.880	2135.676	2135.676	2140.084
25	2014.456	2014.456	2014.456	2016.660	2016.660	2018.864	2018.864	2016.660	2018.864
30	1871.196	1871.196	1873.400	1873.400	1880.012	1880.012	1884.420	1877.808	1880.012
35	1708.100	1712.508	1710.304	1712.508	1714.712	1716.916	1719.120	1716.916	1721.324
40	1529.576	1531.780	1533.984	1536.188	1536.188	1536.188	1536.188	1538.392	1542.800
45	1337.828	1340.032	1342.236	1344.440	1348.848	1346.644	1346.644	1348.848	1355.460
50	1148.284	1148.284	1148.284	1150.488	1154.896	1152.692	1152.692	1152.692	1150.488
55	952.128	954.332	954.332	958.740	958.740	958.740	956.536	958.740	960.944
60	764.788	758.176	764.788	773.604	775.808	771.400	764.788	758.176	755.972

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CANDELA TABULATION - (Cont.)

65	588.468	595.080	599.488	603.896	603.896	603.896	603.896	601.692	603.896
70	423.168	431.984	440.800	445.208	447.412	449.616	449.616	449.616	451.820
75	279.908	290.928	299.744	304.152	308.560	308.560	310.764	312.968	310.764
80	152.076	163.096	182.932	189.544	189.544	187.340	189.544	191.748	189.544
85	41.876	48.488	57.304	70.528	77.140	79.344	85.956	88.160	88.160
90	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204
95	105.792	92.568	81.548	74.936	63.916	59.508	57.304	57.304	55.100
100	266.684	242.440	213.788	196.156	185.136	176.320	174.116	174.116	171.912
105	454.024	412.148	368.068	330.600	306.356	293.132	288.724	286.520	286.520
110	658.996	597.284	533.368	482.676	445.208	427.576	420.964	414.352	412.148
115	863.968	769.196	692.056	630.344	584.060	557.612	544.388	537.776	535.572
120	1060.124	958.740	850.744	771.400	718.504	683.240	663.404	656.792	656.792
125	1223.220	1106.408	991.800	897.028	835.316	784.624	751.564	742.748	738.340
130	1366.480	1238.648	1119.632	1018.248	943.312	897.028	870.580	857.356	852.948
135	1467.864	1344.440	1223.220	1124.040	1046.900	994.004	965.352	947.720	941.108
140	1547.208	1423.784	1311.380	1209.996	1137.264	1079.960	1049.104	1031.472	1024.860
145	1584.676	1478.884	1375.296	1284.932	1214.404	1163.712	1128.448	1110.816	1102.000
150	1595.696	1503.128	1414.968	1342.236	1276.116	1234.240	1198.976	1185.752	1176.936
155	1578.064	1505.332	1439.212	1375.296	1331.216	1293.748	1265.096	1251.872	1243.056
160	1545.004	1492.108	1439.212	1403.948	1370.888	1335.624	1324.604	1313.584	1304.768
165	1496.516	1470.068	1443.620	1417.172	1390.724	1379.704	1370.888	1362.072	1355.460
170	1461.252	1445.824	1428.192	1421.580	1414.968	1408.356	1403.948	1397.336	1390.724
175	1439.212	1434.804	1432.600	1430.396	1428.192	1423.784	1421.580	1419.376	1417.172
180	1423.784	1423.784	1423.784	1423.784	1423.784	1423.784	1423.784	1423.784	1423.784

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	847.70	N.A.	7.30
0-30	1773.26	N.A.	15.20
0-40	2838.94	N.A.	24.40
0-60	4709.75	N.A.	40.40
0-80	5560.91	N.A.	47.70
0-90	5625.14	N.A.	48.30
10-90	5403.96	N.A.	46.40
20-40	1991.24	N.A.	17.10
20-50	3020.27	N.A.	25.90
40-70	2438.48	N.A.	20.90
60-80	851.15	N.A.	7.30
70-80	283.49	N.A.	2.40
80-90	64.23	N.A.	0.60
90-110	586.89	N.A.	5.00
90-120	1422.00	N.A.	12.20
90-130	2512.94	N.A.	21.60
90-150	4695.16	N.A.	40.30
90-180	6030.84	N.A.	51.70
110-180	5443.96	N.A.	46.70
0-180	11655.98	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	221.17
10-20	626.52
20-30	925.57
30-40	1065.68
40-50	1029.03
50-60	841.79
60-70	567.67
70-80	283.49
80-90	64.23
90-100	118.60
100-110	468.28
110-120	835.11
120-130	1090.94
130-140	1153.6
140-150	1028.62
150-160	759.98
160-170	437.13
170-180	138.57

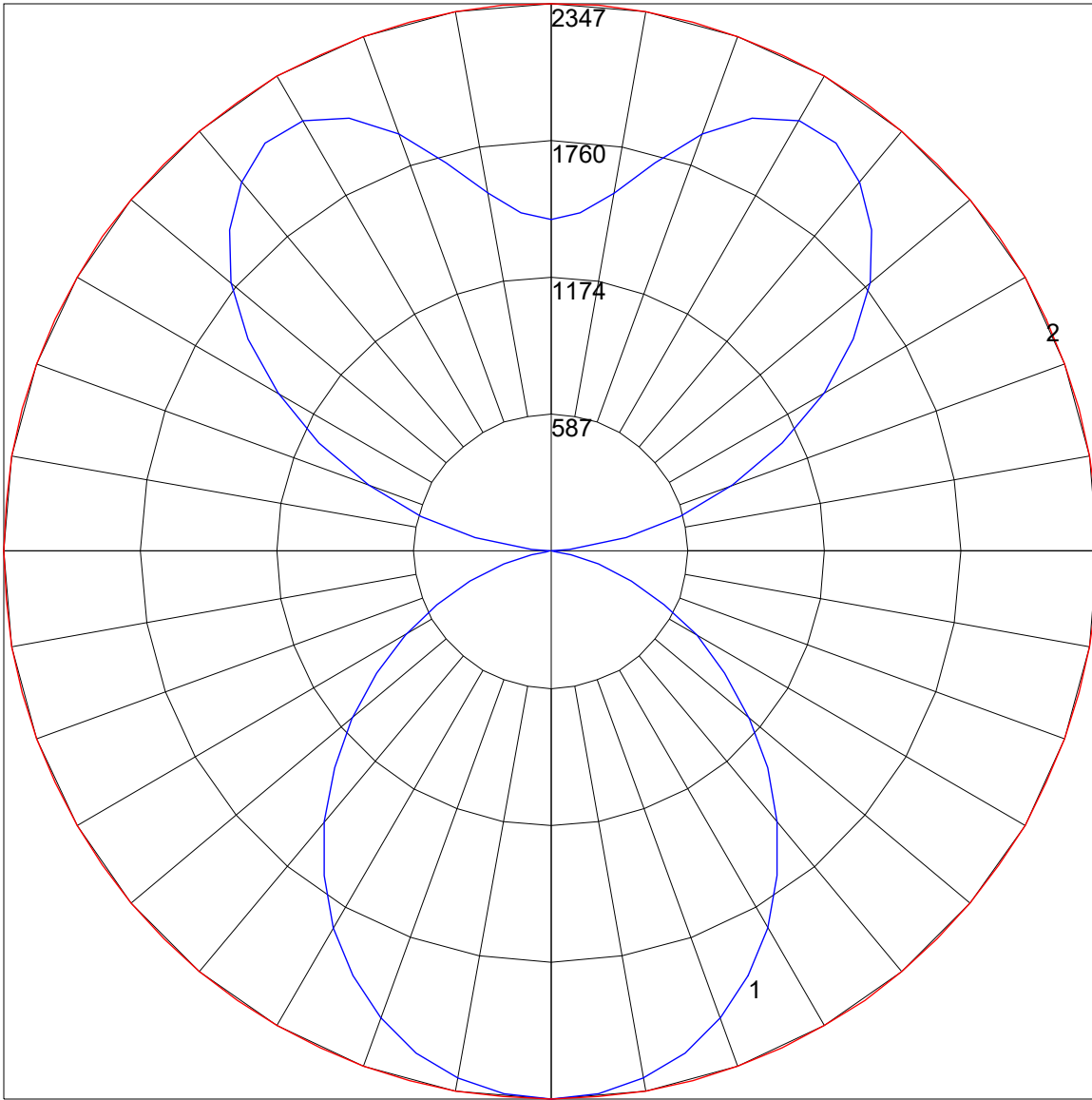
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55	48
1	98	94	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	43	41	40	35
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	38	36	34	30
4	75	64	56	50	69	59	53	47	50	45	41	42	38	35	35	32	30	26
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23
6	63	51	43	38	58	48	41	36	41	35	31	34	30	27	28	25	23	20
7	58	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	20	18
8	54	42	35	29	50	39	32	28	34	28	25	29	24	21	24	21	18	16
9	51	38	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	20	17	15	13

POLAR GRAPH



Maximum Candela = 2347.26 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.)