

## IES Report

DoubleBox™ | 107 | Wide Batwing, up | 40° Symmetric, down | 80 CRI | LO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-G1S1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	71	73	75	75
Total Lumens, 4' rail length (1219mm)	1944	2005	2046	2046
Lumens per foot (305mm)	486	501	512	512
Lumens per foot UP (305mm)	371	383	391	391
Lumens per foot DOWN (305mm)	115	118	121	121
Input Power (W), 4' rail length (1219mm)	27.6	27.6	27.6	27.6
Watts per foot (305mm)	6.9	6.9	6.9	6.9
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\_LO\_35\_G1S1\_BL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911512 (SOURCE REPORTS FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 3/18/20

[MANUFAC] Vode Lighting

[LUMCAT] 107-DB-48-Z-LO-35-G1S1-BL

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

[MORE] 40° symmetric lens down, low output, black anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2046
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	27.64
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	520	1056	7518
55	191	391	4070
65	68	160	2258
75	30	64	1273
85	0	8	508

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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>
<b>0.0</b>	478.036	478.036	478.036	478.036	478.036	478.036	478.036	478.036	478.036	478.036
<b>1.0</b>	442.523	451.832	459.656	467.439	471.424	472.369	473.732	474.388	475.385	488.975
<b>3.0</b>	453.949	455.868	462.283	468.628	473.611	475.774	476.458	476.847	477.381	488.905
<b>5.0</b>	445.684	449.668	458.246	464.545	467.921	470.113	471.325	472.369	473.396	474.829
<b>7.0</b>	433.817	439.750	446.606	453.386	457.081	459.198	459.975	461.407	463.426	465.665
<b>9.0</b>	425.018	428.521	436.688	443.126	446.774	445.411	446.119	448.160	454.505	458.467
<b>11.0</b>	422.391	420.135	423.319	427.135	427.669	425.604	427.303	430.778	435.470	441.838
<b>13.0</b>	397.938	395.821	397.596	401.708	402.653	400.612	402.798	405.594	413.012	420.738
<b>15.0</b>	339.016	341.661	349.467	354.183	359.310	368.283	373.967	381.675	390.282	398.646
<b>17.0</b>	323.988	322.799	326.418	331.209	335.170	340.982	345.773	354.618	364.878	375.428
<b>19.5</b>	303.276	300.289	299.460	301.507	300.481	302.940	299.512	309.987	322.654	336.290
<b>22.5</b>	226.513	228.358	230.109	232.760	241.970	249.267	259.428	260.107	274.763	290.348
<b>25.5</b>	200.744	197.850	197.751	198.627	201.277	207.066	215.279	214.090	229.257	245.595
<b>29.0</b>	154.848	151.374	150.475	153.393	155.771	158.810	164.111	175.659	189.318	204.873
<b>33.0</b>	102.585	103.919	102.875	103.895	107.155	112.404	120.547	131.196	133.383	148.161
<b>37.5</b>	65.929	66.729	66.485	68.115	71.369	75.939	81.971	90.062	91.449	103.240
<b>42.5</b>	45.165	43.877	43.633	44.631	46.481	47.862	52.043	57.588	64.635	73.585
<b>47.5</b>	28.345	28.124	27.788	28.298	29.099	30.554	29.899	33.715	38.506	44.411
<b>55.0</b>	14.442	14.222	14.001	14.268	14.709	15.509	15.242	17.238	19.790	22.875
<b>65.0</b>	5.348	5.493	5.516	5.690	6.055	6.490	7.122	7.923	8.242	9.506
<b>75.0</b>	2.332	2.332	2.308	2.430	2.482	2.598	2.842	3.138	3.260	3.741
<b>85.0</b>	0.000	0.000	0.000	0.000	0.046	0.046	0.099	0.145	0.244	0.435
<b>90.0</b>	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830
<b>95.0</b>	13.178	16.211	15.295	15.643	16.170	17.058	17.499	21.013	23.020	24.569
<b>100.0</b>	50.901	53.424	54.682	57.287	60.639	64.212	68.330	71.810	76.461	76.867
<b>105.0</b>	122.177	113.802	121.788	124.978	128.621	134.572	139.084	142.889	146.491	145.568
<b>110.0</b>	227.778	220.284	221.038	225.852	233.636	234.053	242.156	236.188	230.214	215.917
<b>115.0</b>	364.344	362.848	349.995	343.377	340.269	338.378	329.098	316.077	299.553	279.096
<b>120.0</b>	463.669	460.769	454.384	442.372	431.340	415.906	399.521	380.927	352.304	322.335
<b>125.0</b>	528.281	524.906	517.070	507.169	494.792	471.441	450.370	419.839	389.238	354.780
<b>130.0</b>	555.901	552.920	544.376	531.448	515.701	494.740	468.112	439.222	406.180	372.209
<b>135.0</b>	555.605	553.094	545.107	532.539	515.156	495.013	469.551	443.155	412.641	382.168
<b>140.0</b>	537.619	535.056	527.812	516.548	501.578	482.972	460.990	437.059	411.469	385.172
<b>145.0</b>	509.223	506.937	501.149	492.200	479.515	464.075	446.072	425.627	404.417	382.777
<b>150.0</b>	476.163	474.098	469.864	462.567	452.835	440.539	426.085	410.408	394.400	376.994
<b>155.0</b>	441.838	440.336	437.535	431.955	424.914	415.906	405.310	393.930	382.110	370.150
<b>160.0</b>	409.555	408.761	406.464	403.315	398.303	392.590	386.025	378.131	369.849	362.430
<b>165.0</b>	381.895	381.309	379.859	378.148	375.828	372.366	368.520	364.315	359.786	354.542
<b>170.0</b>	361.230	360.911	360.209	359.426	358.457	357.321	356.016	353.951	351.811	349.578
<b>175.0</b>	348.835	348.684	348.563	348.197	347.925	347.629	347.310	346.968	346.608	346.231
<b>180.0</b>	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520

**Vert. Horizontal Angles**  
**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>
<b>0.0</b>	478.036	478.036	478.036	478.036	478.036	478.036	478.036	478.036	478.036
<b>1.0</b>	489.363	489.804	490.141	490.674	491.283	491.579	491.817	491.991	492.304
<b>3.0</b>	489.340	489.926	490.384	490.918	491.335	491.770	492.159	492.258	492.449
<b>5.0</b>	485.083	486.446	487.490	488.563	489.682	490.216	490.750	490.947	491.283
<b>7.0</b>	474.997	477.381	479.735	482.073	483.772	485.112	486.057	486.690	487.299
<b>9.0</b>	462.695	466.633	470.403	473.587	476.505	478.570	480.246	481.342	481.899
<b>11.0</b>	447.772	453.531	458.832	463.890	467.561	470.815	473.442	475.095	475.826
<b>13.0</b>	428.666	436.421	443.688	450.666	456.379	460.485	464.203	466.320	466.975
<b>15.0</b>	407.757	416.411	424.583	434.379	441.473	448.062	453.073	456.280	459.244

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**CANDELA TABULATION - (Cont.)**

17.0	386.611	397.451	406.713	418.308	427.982	435.789	441.206	445.388	446.994
19.5	351.068	365.702	379.778	393.658	405.205	414.126	421.712	426.138	426.573
22.5	307.510	324.452	341.150	357.901	371.467	383.328	392.857	398.912	400.710
25.5	263.413	282.228	301.020	320.027	336.365	349.491	360.528	367.308	369.251
29.0	213.481	232.882	253.031	272.820	289.838	305.834	318.814	326.836	330.699
33.0	165.300	183.895	202.762	222.865	241.147	256.580	269.294	277.704	280.134
37.5	117.415	133.214	150.255	168.194	184.138	199.404	211.781	219.779	222.233
42.5	84.402	95.607	108.419	122.223	130.465	143.863	154.970	162.046	165.445
47.5	51.777	60.308	69.983	80.533	90.816	100.009	108.222	113.523	114.834
55.0	26.767	31.361	36.656	42.444	47.983	53.673	58.464	61.695	62.913
65.0	11.084	12.934	15.097	17.551	20.004	22.533	24.627	26.083	26.645
75.0	4.280	4.959	5.736	6.658	7.534	8.410	9.210	9.750	9.918
85.0	0.679	0.974	1.218	1.340	1.433	1.531	1.630	1.752	1.798
90.0	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830
95.0	24.934	30.850	30.131	24.180	22.492	22.643	22.197	21.373	21.831
100.0	76.746	76.427	70.783	63.052	57.785	53.122	48.946	47.351	47.548
105.0	141.572	130.564	117.810	102.770	91.512	83.155	77.157	74.118	73.654
110.0	196.069	178.257	158.792	138.811	123.789	113.692	106.395	102.706	102.538
115.0	252.109	222.273	195.495	172.498	154.999	143.022	134.769	130.367	130.007
120.0	290.255	256.256	226.803	203.191	184.225	171.280	163.374	158.276	156.211
125.0	318.211	284.461	254.568	229.831	210.018	196.423	188.251	183.309	180.861
130.0	338.407	306.826	278.574	254.243	234.564	219.791	209.838	203.528	198.801
135.0	351.439	322.973	296.769	275.001	256.923	243.200	234.134	228.497	226.171
140.0	358.672	334.498	311.820	291.682	275.935	262.995	254.353	249.087	246.639
145.0	361.520	341.434	322.695	305.869	292.105	281.283	273.168	268.923	266.475
150.0	360.650	344.920	329.684	317.138	305.341	297.424	290.162	287.170	285.145
155.0	357.906	346.190	335.466	325.020	317.498	310.845	305.880	303.299	301.432
160.0	354.595	346.312	338.308	332.584	327.062	321.749	319.423	317.451	315.967
165.0	349.676	345.686	341.690	337.722	333.807	332.027	330.542	329.191	328.123
170.0	347.275	344.926	342.600	341.487	340.466	339.515	338.639	337.815	337.119
175.0	345.842	345.442	345.030	344.619	344.207	343.795	343.377	342.989	342.612
180.0	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520

**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	150.35	N.A.	7.30
0-30	269.49	N.A.	13.20
0-40	355.69	N.A.	17.40
0-60	449.50	N.A.	22.00
0-80	478.90	N.A.	23.40
0-90	482.87	N.A.	23.60
10-90	446.45	N.A.	21.80
20-40	205.33	N.A.	10.00
20-50	270.96	N.A.	13.20
40-70	114.19	N.A.	5.60
60-80	29.41	N.A.	1.40
70-80	9.03	N.A.	0.40
80-90	3.97	N.A.	0.20
90-110	156.83	N.A.	7.70
90-120	406.95	N.A.	19.90
90-130	718.91	N.A.	35.10
90-150	1257.68	N.A.	61.50
90-180	1563.56	N.A.	76.40
110-180	1406.73	N.A.	68.70
0-180	2046.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	36.42
10-20	113.93
20-30	119.13
30-40	86.20
40-50	65.63
50-60	28.18
60-70	20.38
70-80	9.03
80-90	3.97
90-100	29.39
100-110	127.43
110-120	250.12
120-130	311.96
130-140	297.13
140-150	241.65
150-160	171.82
160-170	100.92
170-180	33.14

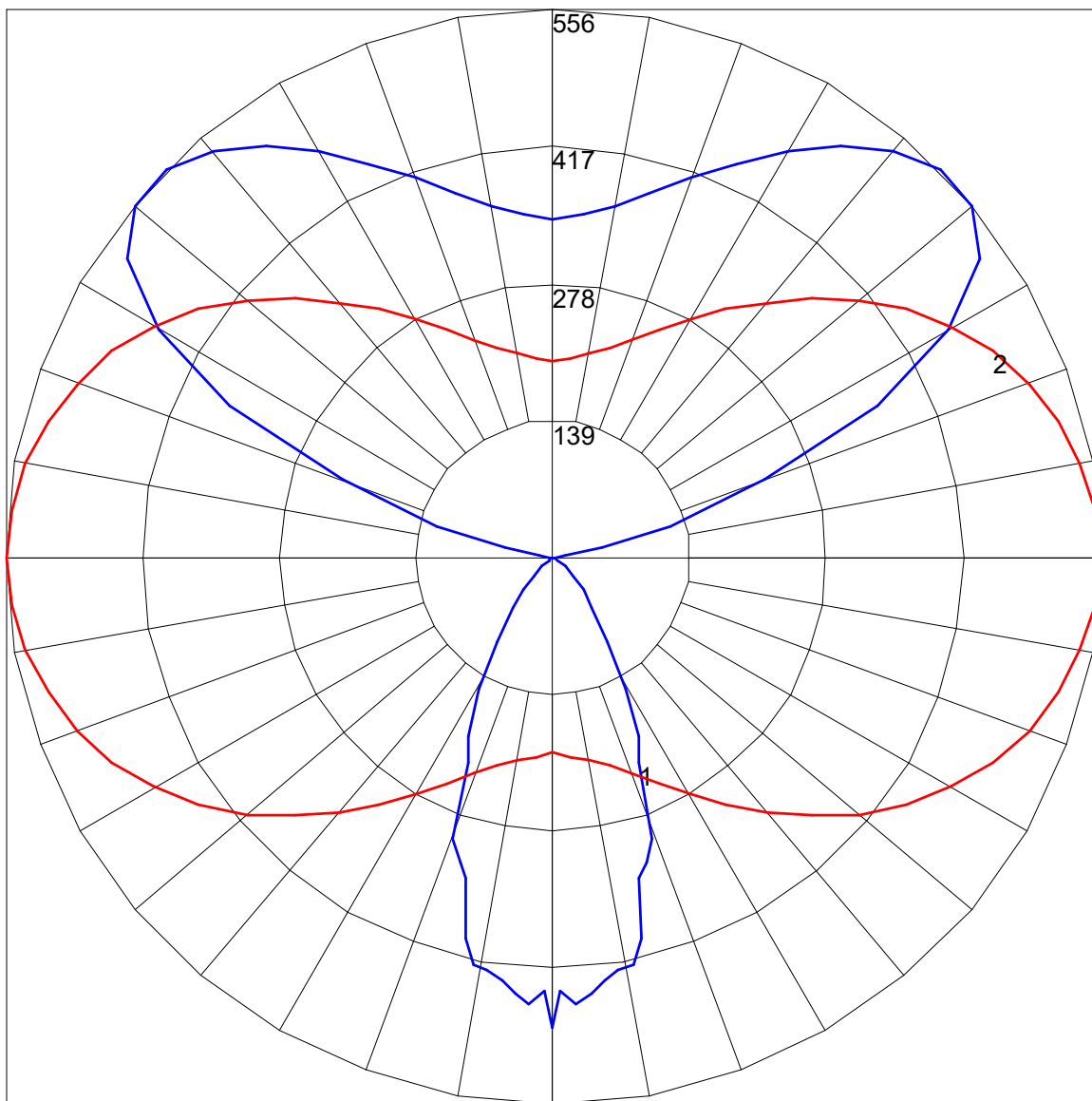
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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
0	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	24
1	93	89	85	82	82	79	76	74	61	59	58	44	43	42	29	29	28	21
2	85	78	73	68	75	70	66	62	54	51	49	40	38	37	27	26	25	19
3	78	70	63	58	69	62	57	53	49	45	42	36	34	32	24	23	22	17
4	72	62	55	50	64	56	50	45	44	40	37	33	30	28	23	21	20	16
5	66	56	48	43	59	50	44	39	40	35	32	30	27	25	21	19	18	14
6	61	50	43	38	55	45	39	35	36	32	28	27	25	22	19	18	16	13
7	57	46	38	33	51	41	35	31	33	29	25	25	22	20	18	16	15	12
8	53	42	35	30	47	38	32	27	30	26	23	23	20	18	17	15	14	11
9	49	38	31	27	44	35	29	25	28	24	21	22	19	17	16	14	13	11
10	46	35	28	24	41	32	26	22	26	22	19	20	17	15	15	13	12	10

POLAR GRAPH



Maximum Candela = 555.901 Located At Horizontal Angle = 0, Vertical Angle = 130  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (130) (Through Max. Cd.)