

## 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-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	77	80	81	81
Total Lumens, 4' rail length (1219mm)	2117	2184	2228	2228
Lumens per foot (305mm)	529	546	557	557
Lumens per foot UP (305mm)	371	383	391	391
Lumens per foot DOWN (305mm)	158	163	166	166
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.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911509 (SOURCE REPORTS FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 3/18/2020

[MANUFAC] Vode Lighting

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

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

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

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2229
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
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	886	1866	10749
55	510	993	7411
65	310	550	5145
75	166	272	3432
85	4	33	1497

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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>	535.885	535.885	535.885	535.885	535.885	535.885	535.885	535.885	535.885	535.885
<b>1.0</b>	521.333	524.129	525.149	529.644	532.707	534.482	532.805	534.116	535.160	536.280
<b>3.0</b>	514.866	515.887	516.078	525.051	530.277	532.341	530.978	532.075	533.461	534.650
<b>5.0</b>	501.932	500.476	508.010	513.990	521.768	523.763	523.398	525.341	527.458	528.844
<b>7.0</b>	484.091	480.368	488.418	497.437	505.482	508.689	511.119	513.602	516.397	518.897
<b>9.0</b>	462.695	457.545	466.784	479.857	489.410	492.867	496.028	499.502	503.585	507.599
<b>11.0</b>	436.734	429.490	440.185	454.163	463.426	469.968	474.318	479.057	484.381	489.729
<b>13.0</b>	405.861	396.407	402.584	418.725	434.136	443.491	448.891	455.648	462.016	469.359
<b>15.0</b>	384.517	374.895	393.489	410.483	415.535	422.054	429.154	437.146	445.776	454.650
<b>17.0</b>	347.037	347.229	355.813	376.791	383.618	391.227	399.179	408.390	418.893	429.664
<b>19.5</b>	305.080	301.066	313.635	331.795	342.125	350.390	359.942	370.881	382.916	395.775
<b>22.5</b>	257.143	256.847	266.255	283.394	291.879	301.165	311.982	323.942	337.943	353.087
<b>25.5</b>	212.170	214.090	220.336	234.871	245.131	254.585	265.698	278.800	293.579	309.917
<b>29.0</b>	170.503	165.810	175.270	188.541	196.394	205.337	216.131	229.065	244.157	260.809
<b>33.0</b>	128.447	125.802	131.730	143.910	150.957	158.885	168.386	180.078	194.230	209.809
<b>37.5</b>	95.532	95.294	99.470	106.935	112.184	118.436	126.191	135.911	147.871	161.385
<b>42.5</b>	70.737	69.037	72.952	78.155	82.186	86.756	92.446	99.812	108.785	119.428
<b>47.5</b>	54.503	53.360	56.011	59.583	62.228	65.343	69.380	74.629	81.217	88.995
<b>55.0</b>	38.605	37.973	39.283	41.012	42.323	44.196	46.481	49.491	53.337	58.174
<b>65.0</b>	24.308	24.360	24.650	25.259	25.938	26.668	27.689	28.977	30.653	32.747
<b>75.0</b>	13.125	13.004	13.201	13.392	13.589	13.856	14.198	14.610	15.219	15.944
<b>85.0</b>	0.342	0.365	0.365	0.435	0.510	0.632	0.829	1.044	1.340	1.873
<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. 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>
<b>0.0</b>	535.885	535.885	535.885	535.885	535.885	535.885	535.885	535.885	535.885
<b>1.0</b>	536.935	537.521	539.464	539.876	540.949	541.140	541.407	541.070	541.215
<b>3.0</b>	535.456	536.280	537.666	537.956	541.291	540.537	540.751	540.850	540.972
<b>5.0</b>	530.323	532.051	533.484	534.795	536.720	537.498	538.176	539.707	538.495
<b>7.0</b>	521.548	524.100	526.628	528.577	531.999	533.438	534.627	535.212	536.013
<b>9.0</b>	511.682	515.324	518.485	521.843	524.807	527.116	529.424	531.007	533.339
<b>11.0</b>	495.221	500.546	505.627	510.609	514.089	517.586	521.113	523.786	526.095
<b>13.0</b>	476.551	483.581	490.286	497.263	502.297	506.746	511.972	514.182	517.151
<b>15.0</b>	464.203	472.590	481.145	488.441	495.076	500.424	504.020	506.015	507.036

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**CANDELA TABULATION - (Cont.)**

17.0	440.794	451.246	461.431	471.401	479.498	485.060	490.338	493.789	494.978
19.5	409.219	421.811	434.449	447.163	457.423	465.757	471.349	475.339	477.038
22.5	368.938	384.105	399.666	414.903	427.280	437.975	445.608	450.057	451.907
25.5	327.445	344.387	362.082	379.245	394.267	406.882	415.123	421.080	423.168
29.0	279.189	297.615	317.040	335.466	352.043	366.676	375.939	383.136	385.590
33.0	228.044	246.053	265.646	285.314	303.009	315.601	328.170	336.046	339.016
37.5	177.381	193.813	211.758	230.399	247.683	262.827	274.618	282.129	284.171
42.5	131.631	145.684	160.683	177.016	192.525	206.190	216.810	223.155	225.829
47.5	98.061	109.173	121.034	133.968	146.560	158.230	167.028	172.567	174.928
55.0	63.469	70.058	77.691	85.886	94.151	102.051	108.709	112.845	114.544
65.0	35.345	38.408	41.980	46.040	50.222	54.259	57.664	59.972	60.726
75.0	16.895	18.061	19.401	20.979	22.556	24.186	25.549	26.402	26.738
85.0	2.651	3.526	4.251	4.570	4.791	5.005	5.203	5.278	5.301
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	167.08	N.A.	7.50
0-30	307.84	N.A.	13.80
0-40	420.29	N.A.	18.90
0-60	574.70	N.A.	25.80
0-80	652.58	N.A.	29.30
0-90	665.03	N.A.	29.80
10-90	624.81	N.A.	28.00
20-40	253.22	N.A.	11.40
20-50	353.57	N.A.	15.90
40-70	203.86	N.A.	9.10
60-80	77.88	N.A.	3.50
70-80	28.43	N.A.	1.30
80-90	12.45	N.A.	0.60
90-110	156.83	N.A.	7.00
90-120	406.95	N.A.	18.30
90-130	718.91	N.A.	32.30
90-150	1257.68	N.A.	56.40
90-180	1563.56	N.A.	70.20
110-180	1406.73	N.A.	63.10
0-180	2228.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	40.21
10-20	126.86
20-30	140.76
30-40	112.45
40-50	100.36
50-60	54.05
60-70	49.46
70-80	28.43
80-90	12.45
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

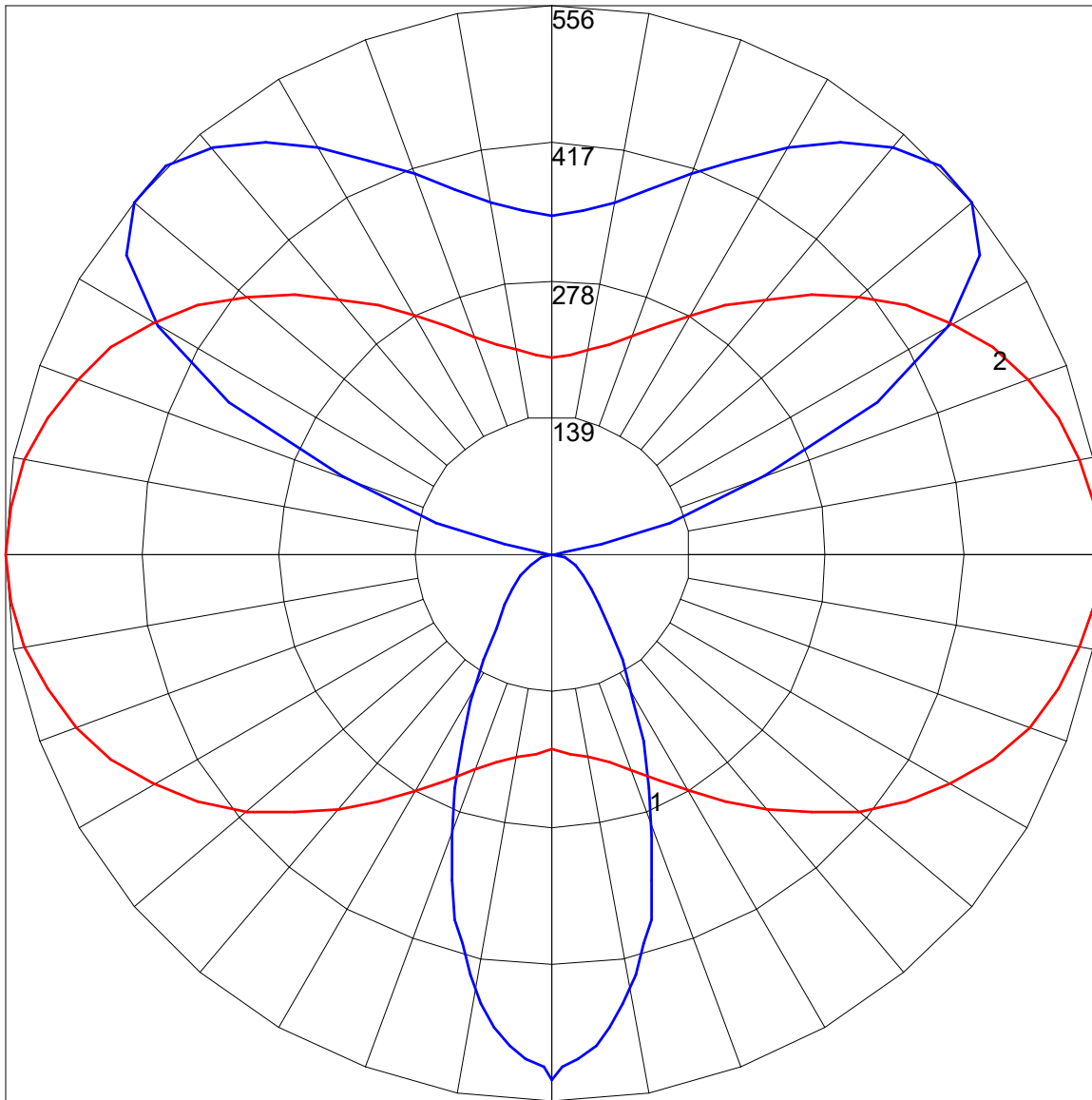
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	38	38	38	30
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	34	33	33	26
2	86	79	73	69	77	71	66	62	57	53	51	43	41	39	31	29	28	23
3	79	70	63	58	70	63	58	53	50	47	43	39	36	34	28	26	25	20
4	72	62	55	50	65	56	50	45	45	41	37	35	32	30	25	24	22	18
5	67	56	48	43	60	51	44	40	41	36	33	32	29	26	23	21	20	16
6	62	50	43	38	55	46	39	35	37	32	29	29	26	23	21	19	18	15
7	57	46	38	33	51	42	35	31	34	29	26	27	23	21	20	18	16	13
8	53	42	34	30	48	38	32	27	31	26	23	25	21	19	18	16	15	12
9	49	38	31	26	45	35	29	25	29	24	21	23	20	17	17	15	14	11
10	46	35	28	24	42	32	26	22	26	22	19	21	18	16	16	14	13	11

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.)