

## IES Report

DoubleBox™ | 107 | Wide Batwing, up | 120° FlyWing™, down | 80 CRI | LO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-G1G2-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	110	113	115	115
Total Lumens, 4' rail length (1219mm)	3010	3105	3168	3168
Lumens per foot (305mm)	752	776	792	792
Lumens per foot UP (305mm)	371	383	391	391
Lumens per foot DOWN (305mm)	380	392	400	400
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\_G1G2.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911505 (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-G1G2-AL

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

[MORE] flywing 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	3165
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	27.64
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)	0.07 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	6809	7631	15098
55	4877	5651	13972
65	2592	3374	13062
75	902	1400	10667
85	58	146	4215

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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</b>	530.491	530.491	530.491	530.491	530.491	530.491	530.491	530.491	530.491	530.491
<b>5</b>	534.116	533.728	533.681	533.217	533.095	532.562	532.173	531.587	530.833	530.253
<b>10</b>	544.231	543.912	543.112	542.358	540.972	539.052	537.353	535.114	532.660	529.958
<b>15</b>	556.382	555.826	554.874	552.984	550.403	547.172	543.280	538.930	533.629	528.525
<b>20</b>	563.679	563.192	561.684	559.398	556.092	551.719	546.250	540.026	532.539	524.587
<b>25</b>	564.311	563.969	562.240	559.520	555.315	550.548	544.011	536.059	526.994	516.420
<b>30</b>	556.968	556.893	555.315	552.351	548.048	542.283	535.456	526.681	515.742	503.440
<b>35</b>	542.138	541.650	539.829	536.668	532.585	526.895	519.651	510.151	498.939	484.938
<b>40</b>	517.244	516.734	515.081	512.262	508.080	502.640	495.633	486.179	473.906	459.778
<b>45</b>	481.417	481.122	479.590	477.450	473.831	469.017	461.941	452.876	440.939	426.207
<b>50</b>	432.750	432.483	431.584	429.879	427.303	423.487	417.583	409.289	397.793	383.792
<b>55</b>	369.495	369.373	369.013	368.718	367.650	365.290	360.841	354.281	343.975	330.965
<b>60</b>	289.907	290.104	290.980	291.926	292.610	292.488	290.539	286.433	279.142	268.760
<b>65</b>	203.516	203.829	205.047	206.799	208.841	210.517	211.195	210.175	206.700	200.767
<b>70</b>	126.892	127.258	128.499	130.396	132.727	135.378	137.396	138.516	138.150	136.109
<b>75</b>	71.131	71.323	72.100	73.440	75.162	77.157	79.054	80.655	81.629	82.070
<b>80</b>	30.044	30.218	30.728	31.604	32.840	34.348	35.977	37.584	39.162	40.548
<b>85</b>	4.425	4.425	4.495	4.570	4.791	5.034	5.446	6.078	7.001	8.143
<b>90</b>	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830
<b>95</b>	13.178	16.211	15.295	15.643	16.170	17.058	17.499	21.013	23.020	24.569
<b>100</b>	50.901	53.424	54.682	57.287	60.639	64.212	68.330	71.810	76.461	76.867
<b>105</b>	122.177	113.802	121.788	124.978	128.621	134.572	139.084	142.889	146.491	145.568
<b>110</b>	227.778	220.284	221.038	225.852	233.636	234.053	242.156	236.188	230.214	215.917
<b>115</b>	364.344	362.848	349.995	343.377	340.269	338.378	329.098	316.077	299.553	279.096
<b>120</b>	463.669	460.769	454.384	442.372	431.340	415.906	399.521	380.927	352.304	322.335
<b>125</b>	528.281	524.906	517.070	507.169	494.792	471.441	450.370	419.839	389.238	354.780
<b>130</b>	555.901	552.920	544.376	531.448	515.701	494.740	468.112	439.222	406.180	372.209
<b>135</b>	555.605	553.094	545.107	532.539	515.156	495.013	469.551	443.155	412.641	382.168
<b>140</b>	537.619	535.056	527.812	516.548	501.578	482.972	460.990	437.059	411.469	385.172
<b>145</b>	509.223	506.937	501.149	492.200	479.515	464.075	446.072	425.627	404.417	382.777
<b>150</b>	476.163	474.098	469.864	462.567	452.835	440.539	426.085	410.408	394.400	376.994
<b>155</b>	441.838	440.336	437.535	431.955	424.914	415.906	405.310	393.930	382.110	370.150
<b>160</b>	409.555	408.761	406.464	403.315	398.303	392.590	386.025	378.131	369.849	362.430
<b>165</b>	381.895	381.309	379.859	378.148	375.828	372.366	368.520	364.315	359.786	354.542
<b>170</b>	361.230	360.911	360.209	359.426	358.457	357.321	356.016	353.951	351.811	349.578
<b>175</b>	348.835	348.684	348.563	348.197	347.925	347.629	347.310	346.968	346.608	346.231
<b>180</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</b>	530.491	530.491	530.491	530.491	530.491	530.491	530.491	530.491	530.491
<b>5</b>	529.813	529.256	528.600	528.305	528.038	527.504	527.191	527.046	526.826
<b>10</b>	527.284	524.761	522.354	520.190	518.195	516.420	515.301	514.524	514.037
<b>15</b>	523.201	517.128	511.827	506.914	502.297	498.336	495.732	494.056	493.180
<b>20</b>	516.055	506.381	497.802	488.685	480.930	474.295	469.092	465.856	464.690
<b>25</b>	504.681	492.524	479.469	467.074	455.526	445.341	437.610	432.918	430.807
<b>30</b>	489.439	474.144	457.423	441.403	426.016	412.890	402.584	396.331	393.855
<b>35</b>	468.675	450.712	431.827	411.817	393.634	378.177	365.922	358.463	355.737
<b>40</b>	441.838	421.909	400.902	379.268	359.020	341.226	328.413	320.392	317.573
<b>45</b>	407.833	387.289	365.632	342.954	322.532	305.126	292.024	284.223	281.451
<b>50</b>	365.632	345.384	324.527	303.305	284.948	268.784	257.213	249.992	247.614
<b>55</b>	314.412	296.305	278.336	260.716	245.740	232.928	223.839	217.929	215.963
<b>60</b>	255.803	241.535	228.114	215.766	205.459	196.829	190.779	187.009	185.525

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	192.844	184.504	176.894	170.091	164.598	160.097	156.913	154.802	154.170
<b>70</b>	133.191	130.007	127.258	125.019	123.198	122.078	121.034	120.280	119.990
<b>75</b>	82.261	82.308	82.308	82.482	82.749	83.062	83.213	83.184	83.091
<b>80</b>	41.789	42.908	43.807	44.532	45.165	45.582	45.872	46.064	46.040
<b>85</b>	9.773	11.496	12.934	13.978	14.587	14.854	14.923	14.976	14.923
<b>90</b>	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830
<b>95</b>	24.934	30.850	30.131	24.180	22.492	22.643	22.197	21.373	21.831
<b>100</b>	76.746	76.427	70.783	63.052	57.785	53.122	48.946	47.351	47.548
<b>105</b>	141.572	130.564	117.810	102.770	91.512	83.155	77.157	74.118	73.654
<b>110</b>	196.069	178.257	158.792	138.811	123.789	113.692	106.395	102.706	102.538
<b>115</b>	252.109	222.273	195.495	172.498	154.999	143.022	134.769	130.367	130.007
<b>120</b>	290.255	256.256	226.803	203.191	184.225	171.280	163.374	158.276	156.211
<b>125</b>	318.211	284.461	254.568	229.831	210.018	196.423	188.251	183.309	180.861
<b>130</b>	338.407	306.826	278.574	254.243	234.564	219.791	209.838	203.528	198.801
<b>135</b>	351.439	322.973	296.769	275.001	256.923	243.200	234.134	228.497	226.171
<b>140</b>	358.672	334.498	311.820	291.682	275.935	262.995	254.353	249.087	246.639
<b>145</b>	361.520	341.434	322.695	305.869	292.105	281.283	273.168	268.923	266.475
<b>150</b>	360.650	344.920	329.684	317.138	305.341	297.424	290.162	287.170	285.145
<b>155</b>	357.906	346.190	335.466	325.020	317.498	310.845	305.880	303.299	301.432
<b>160</b>	354.595	346.312	338.308	332.584	327.062	321.749	319.423	317.451	315.967
<b>165</b>	349.676	345.686	341.690	337.722	333.807	332.027	330.542	329.191	328.123
<b>170</b>	347.275	344.926	342.600	341.487	340.466	339.515	338.639	337.815	337.119
<b>175</b>	345.842	345.442	345.030	344.619	344.207	343.795	343.377	342.989	342.612
<b>180</b>	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	199.47	N.A.	6.30
0-30	433.25	N.A.	13.70
0-40	724.96	N.A.	22.90
0-60	1311.07	N.A.	41.40
0-80	1585.43	N.A.	50.10
0-90	1601.94	N.A.	50.60
10-90	1551.34	N.A.	49.00
20-40	525.49	N.A.	16.60
20-50	835.45	N.A.	26.40
40-70	774.07	N.A.	24.50
60-80	274.36	N.A.	8.70
70-80	86.40	N.A.	2.70
80-90	16.51	N.A.	0.50
90-110	156.83	N.A.	5.00
90-120	406.95	N.A.	12.90
90-130	718.91	N.A.	22.70
90-150	1257.68	N.A.	39.70
90-180	1563.56	N.A.	49.40
110-180	1406.73	N.A.	44.40
0-180	3165.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	50.60
10-20	148.86
20-30	233.78
30-40	291.71
40-50	309.96
50-60	276.15
60-70	187.96
70-80	86.40
80-90	16.51
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

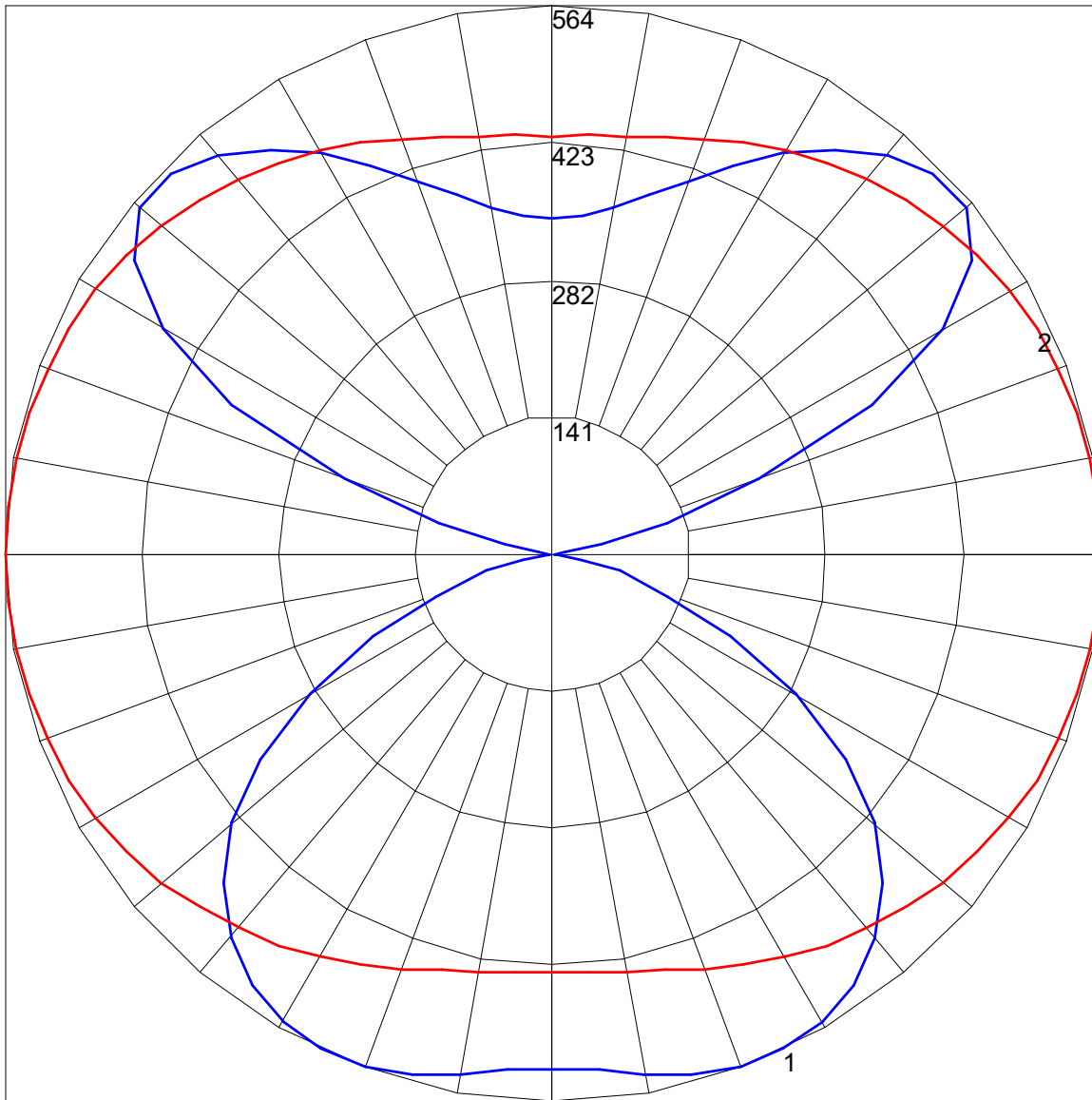
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	90	87	90	87	83	81	74	71	69	61	60	58	50	49	48	43
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	41	36
3	81	72	65	59	75	67	60	55	57	52	48	48	44	41	39	37	34	30
4	74	64	56	49	68	59	52	47	50	45	41	42	38	35	35	32	29	26
5	68	56	48	42	63	52	45	40	45	39	35	38	34	30	31	28	26	22
6	63	51	42	37	58	47	40	34	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	33	28	49	38	31	27	33	28	24	28	24	21	24	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	22	18	16	14
10	47	34	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

## POLAR GRAPH



Maximum Candela = 564.311    Located At Horizontal Angle = 0, Vertical Angle = 25

### # 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)