

**IES Report**

**DoubleBox™ | 107 | 120° 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	96	99	101	103
Total Lumens, 4' rail length (1219mm)	2844	2934	2994	3053
Lumens per foot (305mm)	711	733	748	763
Lumens per foot UP (305mm)	356	367	374	382
Lumens per foot DOWN (305mm)	356	367	374	382
Input Power (W), 4' rail length (1219mm)	29.9	29.9	29.9	29.9
Watts per foot (305mm)	7.5	7.5	7.5	7.5
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\_LO\_35\_G1G2.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L011800106 (SOURCE REPORT FOR REFERENCE)  
 [TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
 [ISSUEDATE] 1/12/2018  
 [MANUFAC] Vode Lighting  
 [LUMCAT] 107-DB-48-Z-LO-35-G1G2  
 [LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board,  
 [MORE] 120° batwing lens up with white polycarbonate reflectors/120° flywing lens down, low output  
 [TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2994
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	29.9
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	6603	6952	11810
55	4914	5421	11099
65	3040	3503	10203
75	1324	1656	8108
85	183	322	3202

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>	418.186	418.186	418.186	418.186	418.186	418.186	418.186	418.186	418.186	418.186
<b>5</b>	425.192	424.908	424.612	424.148	423.707	423.226	422.704	422.153	421.567	420.964
<b>10</b>	444.889	444.274	443.195	441.914	440.348	438.521	436.427	433.208	429.861	426.375
<b>15</b>	472.416	471.476	469.574	467.213	463.948	458.884	453.351	447.400	441.078	433.585
<b>20</b>	499.844	498.545	495.964	492.316	486.249	479.480	471.697	461.964	451.797	441.421
<b>25</b>	519.634	517.917	515.400	510.029	503.521	495.047	484.996	474.440	460.085	445.185
<b>30</b>	528.832	527.098	524.169	518.706	511.548	502.471	491.794	477.827	461.906	444.170
<b>35</b>	524.378	522.806	519.692	515.202	508.028	499.635	489.520	473.332	456.721	436.955
<b>40</b>	505.888	504.652	501.862	497.443	491.799	484.979	473.216	459.343	443.050	421.614
<b>45</b>	474.701	473.889	471.679	467.869	462.927	457.202	446.525	435.760	417.554	399.214
<b>50</b>	431.189	430.192	428.400	425.801	422.617	417.235	409.642	398.814	383.734	364.281
<b>55</b>	375.417	374.570	373.700	372.464	370.672	364.571	360.551	349.914	338.598	323.275
<b>60</b>	310.184	309.691	308.722	304.732	301.061	296.937	293.521	290.180	280.900	268.621
<b>65</b>	238.856	239.163	233.740	228.746	227.551	226.618	225.481	221.983	217.773	210.325
<b>70</b>	166.617	164.146	158.555	158.520	160.921	161.408	161.246	159.529	154.773	150.284
<b>75</b>	103.785	97.660	99.052	100.009	100.044	100.787	100.966	99.818	99.661	97.046
<b>80</b>	53.290	49.613	50.814	51.104	51.400	51.823	52.293	52.560	52.623	52.786
<b>85</b>	13.845	15.335	14.860	15.068	15.608	16.072	16.049	17.319	17.307	17.841
<b>90</b>	0.841	0.870	0.893	0.893	0.916	0.893	0.916	0.893	0.893	0.916
<b>95</b>	13.845	15.335	14.860	15.068	15.608	16.072	16.049	17.319	17.307	17.841
<b>100</b>	53.290	49.613	50.814	51.104	51.400	51.823	52.293	52.560	52.623	52.786
<b>105</b>	103.785	97.660	99.052	100.009	100.044	100.787	100.966	99.818	99.661	97.046
<b>110</b>	166.617	164.146	158.555	158.520	160.921	161.408	161.246	159.529	154.773	150.284
<b>115</b>	238.856	239.163	233.740	228.752	227.551	226.618	225.481	221.983	217.773	210.325
<b>120</b>	310.184	309.691	308.722	304.732	301.061	296.937	293.521	290.180	280.900	268.621
<b>125</b>	375.417	374.570	373.700	372.464	370.672	364.576	360.551	349.914	338.598	323.275
<b>130</b>	431.189	430.192	428.400	425.801	422.617	417.235	409.642	398.814	383.734	364.281
<b>135</b>	474.701	473.889	471.679	467.869	462.927	457.202	446.525	435.760	417.554	399.214
<b>140</b>	505.888	504.652	501.862	497.443	491.799	484.979	473.216	459.343	443.050	421.614
<b>145</b>	524.378	522.806	519.692	515.202	508.028	499.635	489.520	473.332	456.721	436.955
<b>150</b>	528.832	527.098	524.169	518.706	511.548	502.471	491.794	477.827	461.906	444.170
<b>155</b>	519.634	517.917	515.400	510.029	503.521	495.047	484.996	474.440	460.085	445.185
<b>160</b>	499.844	498.545	495.964	492.316	486.249	479.480	471.697	461.964	451.797	441.421
<b>165</b>	472.416	471.476	469.574	467.213	463.948	458.884	453.351	447.400	441.078	433.585
<b>170</b>	444.889	444.274	443.195	441.914	440.348	438.521	436.427	433.208	429.861	426.375
<b>175</b>	425.192	424.908	424.612	424.148	423.707	423.226	422.704	422.153	421.567	420.964
<b>180</b>	418.180	418.180	418.180	418.180	418.180	418.180	418.180	418.180	418.180	418.180

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>	418.186	418.186	418.186	418.186	418.186	418.186	418.186	418.186	418.186
<b>5</b>	420.338	419.694	419.044	418.389	417.733	417.084	416.417	415.802	415.199
<b>10</b>	422.785	419.114	415.454	413.685	412.015	410.449	408.981	407.601	406.412
<b>15</b>	426.335	419.972	413.668	407.473	401.285	398.431	395.902	393.582	391.720
<b>20</b>	430.256	418.522	407.177	398.292	389.777	381.541	378.021	374.964	372.720
<b>25</b>	430.250	414.688	399.475	384.865	373.758	363.938	356.665	352.849	350.158
<b>30</b>	425.320	406.052	387.069	369.878	354.026	342.786	332.601	328.506	325.861
<b>35</b>	414.804	393.008	370.556	350.088	332.433	318.582	308.189	302.818	299.802
<b>40</b>	398.744	373.456	348.882	325.914	307.359	292.250	282.356	276.266	273.244
<b>45</b>	373.346	347.948	322.080	298.938	279.641	265.153	255.757	249.899	247.260
<b>50</b>	341.568	315.671	290.551	268.076	249.296	236.710	227.905	222.430	220.359
<b>55</b>	300.017	276.480	253.182	232.133	215.261	204.502	198.000	193.981	192.740
<b>60</b>	250.821	229.228	210.233	195.048	183.048	174.992	169.923	166.762	165.892

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	197.159	182.422	169.285	157.302	148.010	141.752	138.231	136.172	135.384
<b>70</b>	142.790	134.340	125.025	116.882	111.250	107.346	105.525	104.151	103.814
<b>75</b>	93.113	88.288	82.546	77.012	74.031	72.657	70.882	70.134	71.085
<b>80</b>	50.831	47.664	44.556	42.352	41.319	42.949	42.607	42.027	41.731
<b>85</b>	16.977	15.822	15.034	14.367	13.497	13.160	12.418	12.447	12.812
<b>90</b>	0.870	0.870	0.893	0.870	0.841	0.818	0.893	0.870	0.818
<b>95</b>	16.977	15.822	15.034	14.367	13.497	13.160	12.418	12.447	12.812
<b>100</b>	50.831	47.664	44.556	42.352	41.319	42.949	42.607	42.027	41.731
<b>105</b>	93.113	88.288	82.546	77.012	74.031	72.657	70.882	70.134	71.085
<b>110</b>	142.790	134.340	125.025	116.882	111.250	107.346	105.525	104.151	103.814
<b>115</b>	197.159	182.422	169.285	157.302	148.010	141.752	138.231	136.172	135.384
<b>120</b>	250.821	229.228	210.233	195.048	183.048	174.992	169.923	166.762	165.892
<b>125</b>	300.017	276.480	253.182	232.133	215.261	204.502	198.000	193.981	192.740
<b>130</b>	341.568	315.671	290.551	268.076	249.296	236.710	227.905	222.430	220.359
<b>135</b>	373.352	347.948	322.080	298.938	279.641	265.153	255.757	249.899	247.260
<b>140</b>	398.744	373.456	348.882	325.914	307.359	292.250	282.356	276.266	273.244
<b>145</b>	414.804	393.008	370.556	350.088	332.433	318.582	308.189	302.818	299.802
<b>150</b>	425.320	406.052	387.069	369.878	354.026	342.786	332.601	328.506	325.861
<b>155</b>	430.250	414.688	399.475	384.865	373.758	363.938	356.665	352.849	350.158
<b>160</b>	430.256	418.522	407.177	398.292	389.777	381.541	378.021	374.964	372.720
<b>165</b>	426.335	419.972	413.668	407.473	401.285	398.431	395.902	393.582	391.720
<b>170</b>	422.785	419.114	415.454	413.685	412.015	410.449	408.981	407.601	406.412
<b>175</b>	420.338	419.694	419.044	418.389	417.733	417.084	416.417	415.802	415.199
<b>180</b>	418.180	418.180	418.180	418.180	418.180	418.180	418.180	418.180	418.180

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	163.12	N.A.	5.40
0-30	366.00	N.A.	12.20
0-40	630.54	N.A.	21.10
0-60	1186.53	N.A.	39.60
0-80	1475.17	N.A.	49.30
0-90	1496.76	N.A.	50.00
10-90	1456.44	N.A.	48.70
20-40	467.42	N.A.	15.60
20-50	757.36	N.A.	25.30
40-70	747.93	N.A.	25.00
60-80	288.64	N.A.	9.60
70-80	96.71	N.A.	3.20
80-90	21.59	N.A.	0.70
90-110	118.29	N.A.	4.00
90-120	310.23	N.A.	10.40
90-130	576.28	N.A.	19.30
90-150	1130.76	N.A.	37.80
90-180	1496.76	N.A.	50.00
110-180	1378.46	N.A.	46.00
0-180	2993.52	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	40.32
10-20	122.80
20-30	202.88
30-40	264.54
40-50	289.94
50-60	266.05
60-70	191.94
70-80	96.71
80-90	21.59
90-100	21.59
100-110	96.71
110-120	191.94
120-130	266.05
130-140	289.94
140-150	264.54
150-160	202.88
160-170	122.80
170-180	40.32

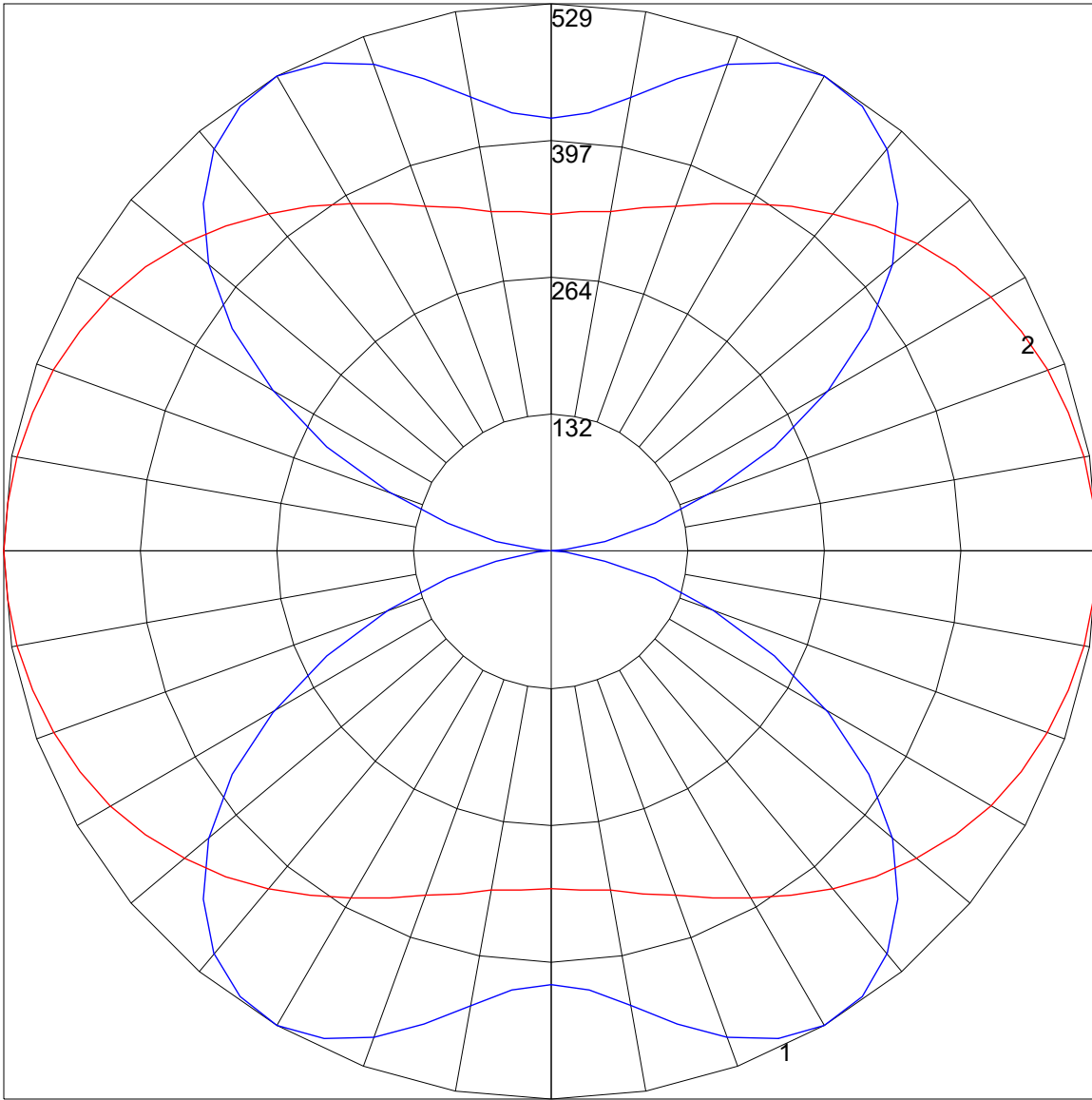
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	83	83	83	69	69	69	56	56	56	50
1	98	93	89	86	90	86	83	80	73	70	68	61	59	57	49	48	47	42
2	89	81	75	70	82	75	70	65	64	60	56	53	50	47	43	41	39	35
3	81	71	64	58	74	66	59	54	56	51	47	47	43	40	38	35	33	29
4	74	63	55	48	68	58	51	45	49	44	39	41	37	34	34	31	28	24
5	67	56	47	41	62	51	44	39	44	38	34	37	32	29	30	27	24	21
6	62	50	41	35	57	46	39	33	39	33	29	33	29	25	27	24	21	18
7	57	45	37	31	52	41	34	29	35	30	25	30	25	22	25	21	19	16
8	53	40	32	27	49	38	30	26	32	27	22	27	23	19	22	19	16	14
9	49	37	29	24	45	34	27	23	29	24	20	25	20	17	21	17	15	13
10	46	34	26	21	42	31	25	20	27	22	18	23	19	16	19	16	13	11

POLAR GRAPH



Maximum Candela = 528.832 Located At Horizontal Angle = 0, Vertical Angle = 30  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)