

## IES Report

DoubleBox™ | 107 | Wide Batwing, up | 120° FlyWing™, down | 90 CRI | SO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-359-G1G2-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	109	112	115	116
Total Lumens, 4' rail length (1219mm)	5189	5353	5462	5517
Lumens per foot (305mm)	1297	1338	1366	1379
Lumens per foot UP (305mm)	640	660	674	681
Lumens per foot DOWN (305mm)	656	676	690	697
Input Power (W), 4' rail length (1219mm)	47.8	47.8	47.8	47.8
Watts per foot (305mm)	12.0	12.0	12.0	12.0
CRI	94	94	94	94

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\_SO\_359\_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

[ISSUEDATE] 3/18/20

[MANUFAC] Vode Lighting

[LUMCAT] 107-DB-48-Z-SO-359-G1G2-AL

[LUMINAIRE] DoubleBox LED, 48", 3500K, 90 CRI, zipper board, wide batwing lens up /

[MORE] flywing lens down, standard 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	5458
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	47.84
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	11740	13157	26032
55	8409	9744	24090
65	4469	5818	22521
75	1554	2414	18391
85	99	251	7268

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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>	914.64	914.64	914.64	914.64	914.64	914.64	914.64	914.64	914.64	914.64
<b>5</b>	920.89	920.22	920.14	919.34	919.13	918.21	917.54	916.53	915.23	914.23
<b>10</b>	938.33	937.78	936.40	935.10	932.71	929.40	926.47	922.61	918.38	913.72
<b>15</b>	959.28	958.32	956.68	953.42	948.97	943.40	936.69	929.19	920.05	911.25
<b>20</b>	971.86	971.02	968.42	964.48	958.78	951.24	941.81	931.08	918.17	904.46
<b>25</b>	972.95	972.36	969.38	964.69	957.44	949.22	937.95	924.24	908.61	890.38
<b>30</b>	960.29	960.16	957.44	952.33	944.91	934.97	923.20	908.07	889.21	868.00
<b>35</b>	934.72	933.88	930.74	925.29	918.25	908.44	895.95	879.57	860.24	836.10
<b>40</b>	891.80	890.92	888.07	883.21	876.00	866.62	854.54	838.24	817.08	792.72
<b>45</b>	830.03	829.52	826.88	823.19	816.95	808.65	796.45	780.82	760.24	734.84
<b>50</b>	746.12	745.66	744.11	741.17	736.73	730.15	719.97	705.67	685.85	661.71
<b>55</b>	637.06	636.85	636.23	635.72	633.88	629.81	622.14	610.83	593.06	570.63
<b>60</b>	499.84	500.18	501.69	503.32	504.50	504.29	500.93	493.85	481.28	463.38
<b>65</b>	350.89	351.43	353.53	356.55	360.07	362.96	364.13	362.37	356.38	346.15
<b>70</b>	218.78	219.41	221.55	224.82	228.84	233.41	236.89	238.82	238.19	234.67
<b>75</b>	122.64	122.97	124.31	126.62	129.59	133.03	136.30	139.06	140.74	141.50
<b>80</b>	51.80	52.10	52.98	54.49	56.62	59.22	62.03	64.80	67.52	69.91
<b>85</b>	7.63	7.63	7.75	7.88	8.26	8.68	9.39	10.48	12.07	14.04
<b>90</b>	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88
<b>95</b>	22.72	27.95	26.37	26.97	27.88	29.41	30.17	36.23	39.69	42.36
<b>100</b>	87.76	92.11	94.28	98.77	104.55	110.71	117.81	123.81	131.83	132.53
<b>105</b>	210.65	196.21	209.98	215.48	221.76	232.02	239.80	246.36	252.57	250.98
<b>110</b>	392.72	379.80	381.10	389.40	402.82	403.54	417.51	407.22	396.92	372.27
<b>115</b>	628.18	625.60	603.44	592.03	586.67	583.41	567.41	544.96	516.47	481.20
<b>120</b>	799.43	794.43	783.42	762.71	743.69	717.08	688.83	656.77	607.42	555.75
<b>125</b>	910.83	905.01	891.50	874.43	853.09	812.83	776.50	723.86	671.10	611.69
<b>130</b>	958.45	953.31	938.58	916.29	889.14	853.00	807.09	757.28	700.31	641.74
<b>135</b>	957.94	953.61	939.84	918.17	888.20	853.47	809.57	764.06	711.45	658.91
<b>140</b>	926.93	922.51	910.02	890.60	864.79	832.71	794.81	753.55	709.43	664.09
<b>145</b>	877.97	874.03	864.05	848.62	826.75	800.13	769.09	733.84	697.27	659.96
<b>150</b>	820.97	817.41	810.11	797.53	780.75	759.55	734.63	707.60	680.00	649.99
<b>155</b>	761.79	759.20	754.37	744.75	732.61	717.08	698.81	679.19	658.81	638.19
<b>160</b>	706.13	704.76	700.80	695.37	686.73	676.88	665.56	651.95	637.67	624.88
<b>165</b>	658.44	657.43	654.93	651.98	647.98	642.01	635.38	628.13	620.32	611.28
<b>170</b>	622.81	622.26	621.05	619.70	618.03	616.07	613.82	610.26	606.57	602.72
<b>175</b>	601.44	601.18	600.97	600.34	599.87	599.36	598.81	598.22	597.60	596.95
<b>180</b>	594.00	594.00	594.00	594.00	594.00	594.00	594.00	594.00	594.00	594.00

**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>	914.64	914.64	914.64	914.64	914.64	914.64	914.64	914.64	914.64
<b>5</b>	913.47	912.51	911.38	910.87	910.41	909.49	908.95	908.70	908.32
<b>10</b>	909.11	904.76	900.61	896.88	893.44	890.38	888.45	887.11	886.27
<b>15</b>	902.07	891.60	882.46	873.99	866.03	859.20	854.71	851.82	850.31
<b>20</b>	889.75	873.07	858.28	842.56	829.19	817.75	808.78	803.20	801.19
<b>25</b>	870.14	849.18	826.67	805.30	785.39	767.83	754.50	746.41	742.77
<b>30</b>	843.86	817.49	788.66	761.04	734.51	711.88	694.11	683.33	679.06
<b>35</b>	808.06	777.09	744.53	710.03	678.68	652.03	630.90	618.04	613.34
<b>40</b>	761.79	727.43	691.21	653.91	619.00	588.32	566.23	552.40	547.54
<b>45</b>	703.16	667.74	630.40	591.30	556.09	526.08	503.49	490.04	485.26
<b>50</b>	630.40	595.49	559.53	522.94	491.29	463.42	443.47	431.02	426.92
<b>55</b>	542.09	510.87	479.89	449.51	423.69	401.60	385.93	375.74	372.35
<b>60</b>	441.04	416.44	393.30	372.01	354.24	339.36	328.93	322.43	319.87

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	332.49	318.11	304.99	293.26	283.79	276.03	270.54	266.90	265.81
<b>70</b>	229.64	224.15	219.41	215.55	212.41	210.48	208.68	207.38	206.88
<b>75</b>	141.83	141.91	141.91	142.21	142.67	143.21	143.47	143.42	143.26
<b>80</b>	72.05	73.98	75.53	76.78	77.87	78.59	79.09	79.42	79.38
<b>85</b>	16.85	19.82	22.30	24.10	25.15	25.61	25.73	25.82	25.73
<b>90</b>	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88
<b>95</b>	42.99	53.19	51.95	41.69	38.78	39.04	38.27	36.85	37.64
<b>100</b>	132.32	131.77	122.04	108.71	99.63	91.59	84.39	81.64	81.98
<b>105</b>	244.09	225.11	203.12	177.19	157.78	143.37	133.03	127.79	126.99
<b>110</b>	338.05	307.34	273.78	239.33	213.43	196.02	183.44	177.08	176.79
<b>115</b>	434.67	383.23	337.06	297.41	267.24	246.59	232.36	224.77	224.15
<b>120</b>	500.44	441.82	391.04	350.33	317.63	295.31	281.68	272.89	269.33
<b>125</b>	548.64	490.45	438.91	396.26	362.10	338.66	324.57	316.05	311.83
<b>130</b>	583.46	529.01	480.30	438.35	404.42	378.95	361.79	350.91	342.76
<b>135</b>	605.93	556.85	511.67	474.14	442.97	419.31	403.68	393.96	389.95
<b>140</b>	618.40	576.72	537.62	502.90	475.75	453.44	438.54	429.46	425.24
<b>145</b>	623.31	588.68	556.37	527.36	503.63	484.97	470.98	463.66	459.44
<b>150</b>	621.81	594.69	568.42	546.79	526.45	512.80	500.28	495.12	491.63
<b>155</b>	617.08	596.88	578.39	560.38	547.41	535.94	527.38	522.93	519.71
<b>160</b>	611.37	597.09	583.29	573.42	563.90	554.74	550.73	547.33	544.77
<b>165</b>	602.89	596.01	589.12	582.28	575.53	572.46	569.90	567.57	565.73
<b>170</b>	598.75	594.70	590.69	588.77	587.01	585.37	583.86	582.44	581.24
<b>175</b>	596.28	595.59	594.88	594.17	593.46	592.75	592.03	591.36	590.71
<b>180</b>	594.00	594.00	594.00	594.00	594.00	594.00	594.00	594.00	594.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	343.91	N.A.	6.30
0-30	746.98	N.A.	13.70
0-40	1249.93	N.A.	22.90
0-60	2260.46	N.A.	41.40
0-80	2733.5	N.A.	50.10
0-90	2761.96	N.A.	50.60
10-90	2674.72	N.A.	49.00
20-40	906.02	N.A.	16.60
20-50	1440.44	N.A.	26.40
40-70	1334.6	N.A.	24.50
60-80	473.03	N.A.	8.70
70-80	148.97	N.A.	2.70
80-90	28.47	N.A.	0.50
90-110	270.39	N.A.	5.00
90-120	701.64	N.A.	12.90
90-130	1239.49	N.A.	22.70
90-150	2168.42	N.A.	39.70
90-180	2695.79	N.A.	49.40
110-180	2425.4	N.A.	44.40
0-180	5457.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	87.25
10-20	256.66
20-30	403.08
30-40	502.94
40-50	534.42
50-60	476.11
60-70	324.07
70-80	148.97
80-90	28.47
90-100	50.67
100-110	219.71
110-120	431.25
120-130	537.86
130-140	512.29
140-150	416.64
150-160	296.23
160-170	174.01
170-180	57.13

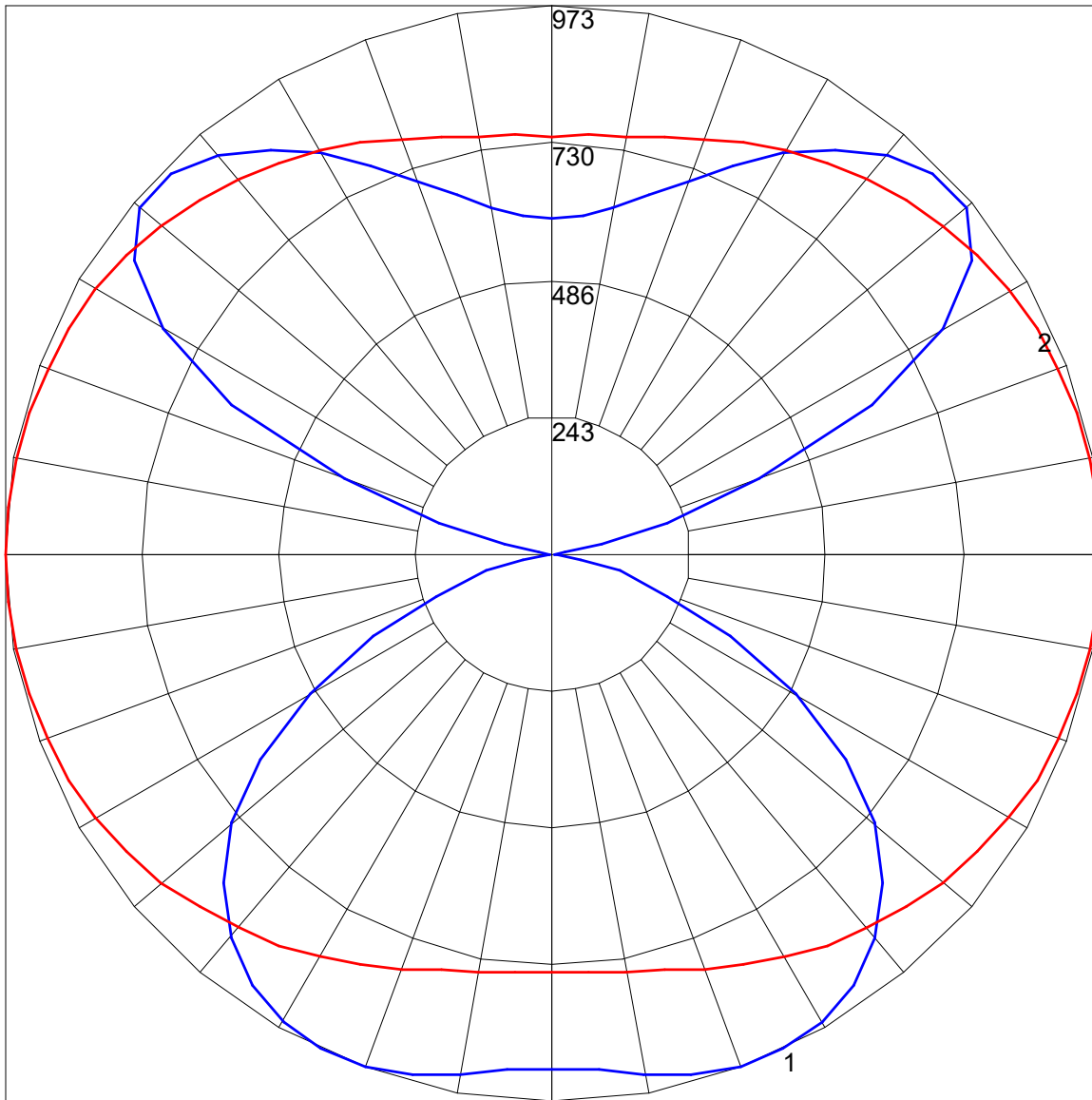
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	80	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	63	56	49	68	59	52	46	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 = 972.95 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.)