

IES Report

DoubleBox™ | 107 | Wide Batwing, up | 40° Symmetric, down | 90 CRI | SO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-359-G1S1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	77	79	81	82
Total Lumens, 4' rail length (1219mm)	3650	3765	3842	3880
Lumens per foot (305mm)	912	941	961	970
Lumens per foot UP (305mm)	640	660	674	681
Lumens per foot DOWN (305mm)	272	281	287	290
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_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-SO-359-G1S1-AL

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

[MORE] 40° symmetric 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	3842
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	47.84
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	1527	3217	18533
55	879	1713	12777
65	534	949	8871
75	287	469	5918
85	8	58	2582

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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>
0.0	923.94	923.94	923.94	923.94	923.94	923.94	923.94	923.94	923.94	923.94
1.0	898.85	903.67	905.43	913.18	918.46	921.52	918.63	920.89	922.69	924.62
3.0	887.70	889.46	889.79	905.26	914.27	917.83	915.48	917.37	919.76	921.81
5.0	865.40	862.89	875.88	886.19	899.60	903.04	902.41	905.76	909.41	911.80
7.0	834.64	828.22	842.10	857.65	871.52	877.05	881.24	885.52	890.34	894.65
9.0	797.75	788.87	804.80	827.34	843.81	849.77	855.22	861.21	868.25	875.17
11.0	752.99	740.50	758.94	783.04	799.01	810.29	817.79	825.96	835.14	844.36
13.0	699.76	683.46	694.11	721.94	748.51	764.64	773.95	785.60	796.58	809.24
15.0	662.96	646.37	678.43	707.73	716.44	727.68	739.92	753.70	768.58	783.88
17.0	598.34	598.67	613.47	649.64	661.41	674.53	688.24	704.12	722.23	740.80
19.5	526.00	519.08	540.75	572.06	589.87	604.12	620.59	639.45	660.20	682.37
22.5	443.35	442.84	459.06	488.61	503.24	519.25	537.90	558.52	582.66	608.77
25.5	365.81	369.12	379.89	404.95	422.64	438.94	458.10	480.69	506.17	534.34
29.0	293.97	285.88	302.19	325.07	338.61	354.03	372.64	394.94	420.96	449.67
33.0	221.46	216.90	227.12	248.12	260.27	273.94	290.32	310.48	334.88	361.74
37.5	164.71	164.30	171.50	184.37	193.42	204.20	217.57	234.33	254.95	278.25
42.5	121.96	119.03	125.78	134.75	141.70	149.58	159.39	172.09	187.56	205.91
47.5	93.97	92.00	96.57	102.73	107.29	112.66	119.62	128.67	140.03	153.44
55.0	66.56	65.47	67.73	70.71	72.97	76.20	80.14	85.33	91.96	100.30
65.0	41.91	42.00	42.50	43.55	44.72	45.98	47.74	49.96	52.85	56.46
75.0	22.63	22.42	22.76	23.09	23.43	23.89	24.48	25.19	26.24	27.49
85.0	0.59	0.63	0.63	0.75	0.88	1.09	1.43	1.80	2.31	3.23
90.0	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88
95.0	22.72	27.95	26.37	26.97	27.88	29.41	30.17	36.23	39.69	42.36
100.0	87.76	92.11	94.28	98.77	104.55	110.71	117.81	123.81	131.83	132.53
105.0	210.65	196.21	209.98	215.48	221.76	232.02	239.80	246.36	252.57	250.98
110.0	392.72	379.80	381.10	389.40	402.82	403.54	417.51	407.22	396.92	372.27
115.0	628.18	625.60	603.44	592.03	586.67	583.41	567.41	544.96	516.47	481.20
120.0	799.43	794.43	783.42	762.71	743.69	717.08	688.83	656.77	607.42	555.75
125.0	910.83	905.01	891.50	874.43	853.09	812.83	776.50	723.86	671.10	611.69
130.0	958.45	953.31	938.58	916.29	889.14	853.00	807.09	757.28	700.31	641.74
135.0	957.94	953.61	939.84	918.17	888.20	853.47	809.57	764.06	711.45	658.91
140.0	926.93	922.51	910.02	890.60	864.79	832.71	794.81	753.55	709.43	664.09
145.0	877.97	874.03	864.05	848.62	826.75	800.13	769.09	733.84	697.27	659.96
150.0	820.97	817.41	810.11	797.53	780.75	759.55	734.63	707.60	680.00	649.99
155.0	761.79	759.20	754.37	744.75	732.61	717.08	698.81	679.19	658.81	638.19
160.0	706.13	704.76	700.80	695.37	686.73	676.88	665.56	651.95	637.67	624.88
165.0	658.44	657.43	654.93	651.98	647.98	642.01	635.38	628.13	620.32	611.28
170.0	622.81	622.26	621.05	619.70	618.03	616.07	613.82	610.26	606.57	602.72
175.0	601.44	601.18	600.97	600.34	599.87	599.36	598.81	598.22	597.60	596.95
180.0	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>
0.0	923.94	923.94	923.94	923.94	923.94	923.94	923.94	923.94	923.94
1.0	925.75	926.76	930.11	930.82	932.67	933.00	933.46	932.88	933.13
3.0	923.20	924.62	927.01	927.51	933.26	931.96	932.33	932.50	932.71
5.0	914.35	917.33	919.80	922.06	925.38	926.72	927.89	930.53	928.44
7.0	899.22	903.62	907.98	911.34	917.24	919.72	921.77	922.78	924.16
9.0	882.21	888.49	893.94	899.73	904.84	908.82	912.80	915.53	919.55
11.0	853.83	863.01	871.77	880.36	886.36	892.39	898.47	903.08	907.06
13.0	821.64	833.76	845.32	857.35	866.03	873.70	882.71	886.52	891.64
15.0	800.35	814.81	829.56	842.14	853.58	862.80	869.00	872.44	874.20

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CANDELA TABULATION - (Cont.)

17.0	759.99	778.01	795.57	812.76	826.72	836.31	845.41	851.36	853.41
19.5	705.55	727.26	749.05	770.97	788.66	803.03	812.67	819.55	822.48
22.5	636.10	662.25	689.08	715.35	736.69	755.13	768.29	775.96	779.15
25.5	564.56	593.77	624.28	653.87	679.77	701.52	715.73	726.00	729.60
29.0	481.36	513.13	546.62	578.39	606.97	632.20	648.17	660.58	664.81
33.0	393.18	424.23	458.01	491.92	522.43	544.14	565.81	579.39	584.51
37.5	305.83	334.16	365.10	397.24	427.04	453.15	473.48	486.43	489.95
42.5	226.95	251.18	277.04	305.20	331.94	355.50	373.81	384.75	389.36
47.5	169.07	188.23	208.68	230.98	252.69	272.81	287.98	297.53	301.60
55.0	109.43	120.79	133.95	148.08	162.33	175.95	187.43	194.56	197.49
65.0	60.94	66.22	72.38	79.38	86.59	93.55	99.42	103.40	104.70
75.0	29.13	31.14	33.45	36.17	38.89	41.70	44.05	45.52	46.10
85.0	4.57	6.08	7.33	7.88	8.26	8.63	8.97	9.10	9.14
90.0	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88
95.0	42.99	53.19	51.95	41.69	38.78	39.04	38.27	36.85	37.64
100.0	132.32	131.77	122.04	108.71	99.63	91.59	84.39	81.64	81.98
105.0	244.09	225.11	203.12	177.19	157.78	143.37	133.03	127.79	126.99
110.0	338.05	307.34	273.78	239.33	213.43	196.02	183.44	177.08	176.79
115.0	434.67	383.23	337.06	297.41	267.24	246.59	232.36	224.77	224.15
120.0	500.44	441.82	391.04	350.33	317.63	295.31	281.68	272.89	269.33
125.0	548.64	490.45	438.91	396.26	362.10	338.66	324.57	316.05	311.83
130.0	583.46	529.01	480.30	438.35	404.42	378.95	361.79	350.91	342.76
135.0	605.93	556.85	511.67	474.14	442.97	419.31	403.68	393.96	389.95
140.0	618.40	576.72	537.62	502.90	475.75	453.44	438.54	429.46	425.24
145.0	623.31	588.68	556.37	527.36	503.63	484.97	470.98	463.66	459.44
150.0	621.81	594.69	568.42	546.79	526.45	512.80	500.28	495.12	491.63
155.0	617.08	596.88	578.39	560.38	547.41	535.94	527.38	522.93	519.71
160.0	611.37	597.09	583.29	573.42	563.90	554.74	550.73	547.33	544.77
165.0	602.89	596.01	589.12	582.28	575.53	572.46	569.90	567.57	565.73
170.0	598.75	594.70	590.69	588.77	587.01	585.37	583.86	582.44	581.24
175.0	596.28	595.59	594.88	594.17	593.46	592.75	592.03	591.36	590.71
180.0	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	288.07	N.A.	7.50
0-30	530.76	N.A.	13.80
0-40	724.64	N.A.	18.90
0-60	990.86	N.A.	25.80
0-80	1125.14	N.A.	29.30
0-90	1146.6	N.A.	29.80
10-90	1077.27	N.A.	28.00
20-40	436.58	N.A.	11.40
20-50	609.61	N.A.	15.90
40-70	351.49	N.A.	9.10
60-80	134.28	N.A.	3.50
70-80	49.01	N.A.	1.30
80-90	21.46	N.A.	0.60
90-110	270.39	N.A.	7.00
90-120	701.64	N.A.	18.30
90-130	1239.49	N.A.	32.30
90-150	2168.42	N.A.	56.40
90-180	2695.79	N.A.	70.20
110-180	2425.4	N.A.	63.10
0-180	3842.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	69.33
10-20	218.73
20-30	242.70
30-40	193.88
40-50	173.03
50-60	93.19
60-70	85.27
70-80	49.01
80-90	21.46
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

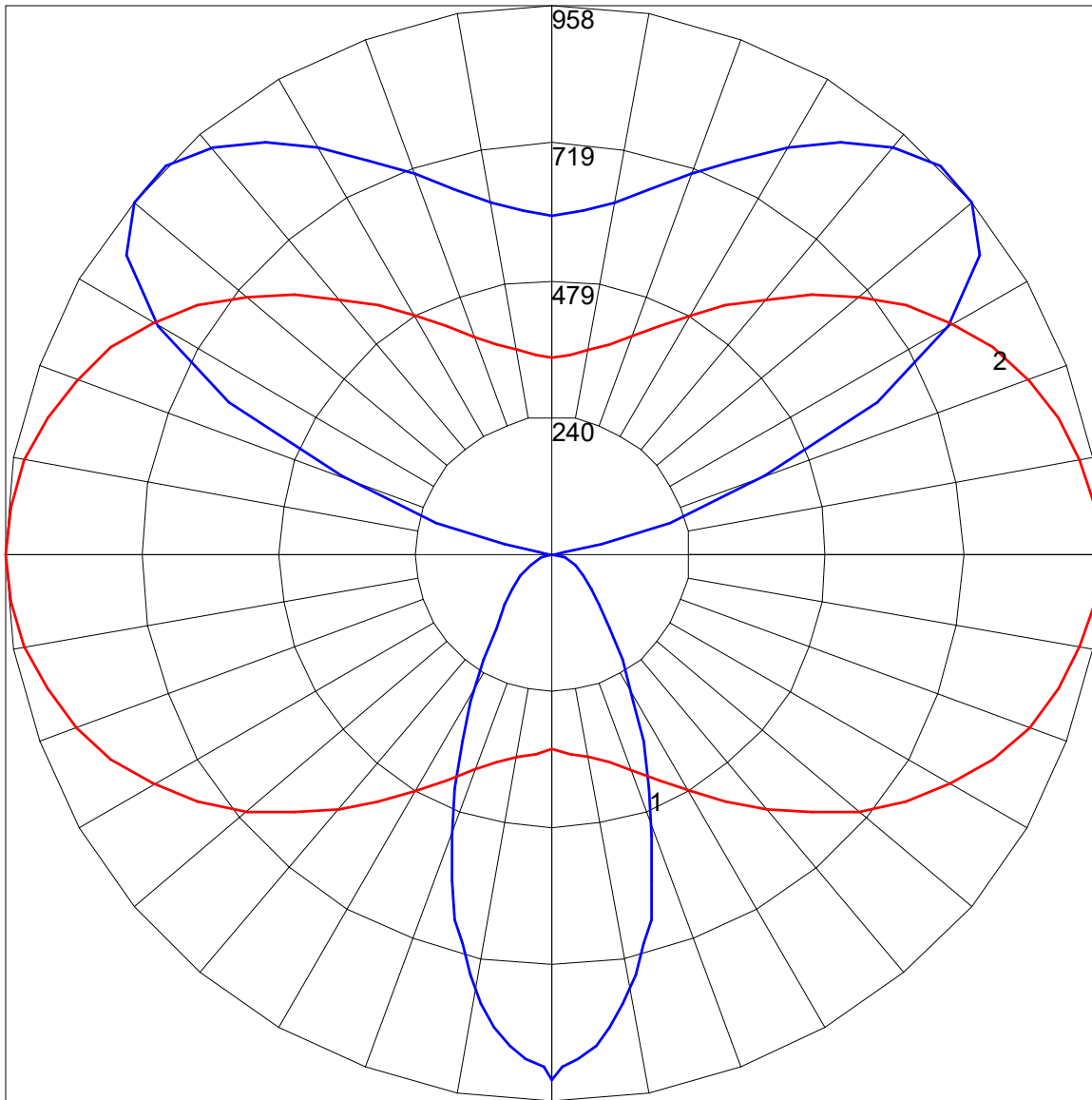
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 958.45 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.)