

IES Report

DoubleBox™ | 107 | Wide Batwing, up | 60° Symmetric, down | 90 CRI | SO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-359-G1S2-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	73	76	77	78
Total Lumens, 4' rail length (1219mm)	3481	3591	3664	3701
Lumens per foot (305mm)	870	898	916	925
Lumens per foot UP (305mm)	640	660	674	681
Lumens per foot DOWN (305mm)	230	237	242	244
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_G1S2_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911513 (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-G1S2-BL

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

[MORE] 60° symmetric lens down, standard output, black anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3664
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
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	1053	2209	14954
55	373	837	8466
65	152	347	4802
75	59	136	2745
85	1	16	1090

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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	902.94	902.94	902.94	902.94	902.94	902.94	902.94	902.94	902.94	902.94
1.0	862.88	869.09	868.46	874.70	893.77	904.88	912.34	917.04	920.64	927.09
3.0	866.57	871.56	871.23	879.90	896.67	906.05	911.92	918.17	926.26	933.38
5.0	864.06	867.08	867.75	874.41	890.55	899.60	904.92	913.51	924.08	930.82
7.0	840.00	841.59	843.69	849.26	868.96	877.68	881.79	889.29	899.06	913.01
9.0	810.83	811.79	814.14	820.18	840.55	848.26	855.51	865.94	883.97	894.70
11.0	773.53	772.65	775.54	779.73	799.10	808.78	813.60	825.92	849.98	865.78
13.0	727.09	725.08	727.72	731.91	749.64	760.28	767.70	784.80	810.08	829.61
15.0	680.07	677.80	681.53	684.80	700.69	712.59	722.94	749.60	774.20	795.83
17.0	628.26	624.28	628.97	632.87	646.74	657.01	667.20	690.50	718.08	744.48
19.5	559.11	554.41	559.90	561.58	574.82	584.38	601.14	631.36	661.29	688.78
22.5	473.10	467.36	471.85	470.34	481.02	493.72	509.27	536.52	570.84	601.77
25.5	394.48	387.94	393.76	397.58	403.91	415.94	433.87	461.54	493.68	526.83
29.0	305.79	300.01	304.66	300.89	306.59	317.61	335.30	359.27	391.54	424.74
33.0	220.37	215.13	220.25	224.90	226.91	231.56	245.77	266.98	294.73	323.81
37.5	146.69	143.17	147.20	144.51	147.61	154.78	167.19	184.92	206.46	231.56
42.5	91.96	89.31	91.79	94.34	95.06	97.24	105.24	116.60	131.65	150.00
47.5	56.92	55.41	56.92	58.05	58.64	60.65	66.05	73.81	84.54	96.77
55.0	28.25	27.54	28.29	28.33	28.92	30.26	32.98	36.88	42.62	49.00
65.0	11.90	11.65	11.99	12.07	12.28	12.87	14.00	15.72	17.94	20.62
75.0	4.69	4.65	4.78	4.74	4.86	5.20	5.62	6.12	7.00	7.96
85.0	0.08	0.08	0.08	0.08	0.08	0.17	0.25	0.38	0.63	0.92
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	902.94	902.94	902.94	902.94	902.94	902.94	902.94	902.94	902.94
1.0	932.79	936.19	940.30	944.82	947.42	949.56	950.73	951.36	952.58
3.0	937.32	942.73	945.75	948.13	948.93	950.86	951.91	952.33	952.83
5.0	936.15	938.87	941.26	941.34	943.36	945.45	947.25	948.43	948.39
7.0	921.86	925.42	927.60	929.69	932.71	935.23	937.95	938.87	939.25
9.0	903.50	909.16	913.18	916.28	919.93	924.03	926.76	928.90	929.69
11.0	878.02	885.52	890.30	896.08	902.45	907.65	911.67	913.98	915.02
13.0	843.48	857.48	865.19	873.74	881.62	887.99	892.89	896.41	897.92
15.0	811.21	825.83	836.98	848.30	858.32	866.74	873.53	877.89	878.64

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CANDELA TABULATION - (Cont.)

17.0	765.86	781.99	797.50	812.09	824.79	834.93	843.02	848.59	850.48
19.5	711.50	730.44	749.81	768.29	784.59	798.63	808.82	815.61	818.37
22.5	636.02	660.53	684.26	707.27	727.93	744.57	757.35	765.86	769.42
25.5	555.59	584.59	612.75	640.16	664.26	683.92	698.67	708.52	712.17
29.0	458.77	490.96	522.06	554.79	582.54	605.75	623.36	634.55	638.49
33.0	356.00	389.70	422.56	455.25	484.29	508.73	527.30	539.53	544.02
37.5	258.81	287.52	318.11	348.96	375.36	402.15	421.30	433.83	438.48
42.5	172.17	195.98	220.50	245.60	270.08	292.50	309.31	320.42	324.57
47.5	112.28	128.88	147.70	167.73	187.10	205.54	219.66	228.84	232.95
55.0	57.34	66.56	77.20	89.36	101.22	112.45	122.05	128.42	130.85
65.0	23.93	27.75	32.23	37.30	42.62	47.95	52.43	55.45	56.67
75.0	9.22	10.65	12.24	14.21	16.14	18.11	19.74	20.96	21.38
85.0	1.51	2.01	2.39	2.77	3.02	3.35	3.65	3.77	3.86
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	290.20	N.A.	7.90
0-30	528.31	N.A.	14.40
0-40	704.90	N.A.	19.20
0-60	898.27	N.A.	24.50
0-80	960.11	N.A.	26.20
0-90	968.22	N.A.	26.40
10-90	898.21	N.A.	24.50
20-40	414.69	N.A.	11.30
20-50	549.44	N.A.	15.00
40-70	236.11	N.A.	6.40
60-80	61.84	N.A.	1.70
70-80	19.11	N.A.	0.50
80-90	8.11	N.A.	0.20
90-110	270.39	N.A.	7.40
90-120	701.64	N.A.	19.10
90-130	1239.49	N.A.	33.80
90-150	2168.42	N.A.	59.20
90-180	2695.79	N.A.	73.60
110-180	2425.4	N.A.	66.20
0-180	3664.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	70.01
10-20	220.19
20-30	238.11
30-40	176.59
40-50	134.75
50-60	58.62
60-70	42.74
70-80	19.11
80-90	8.11
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

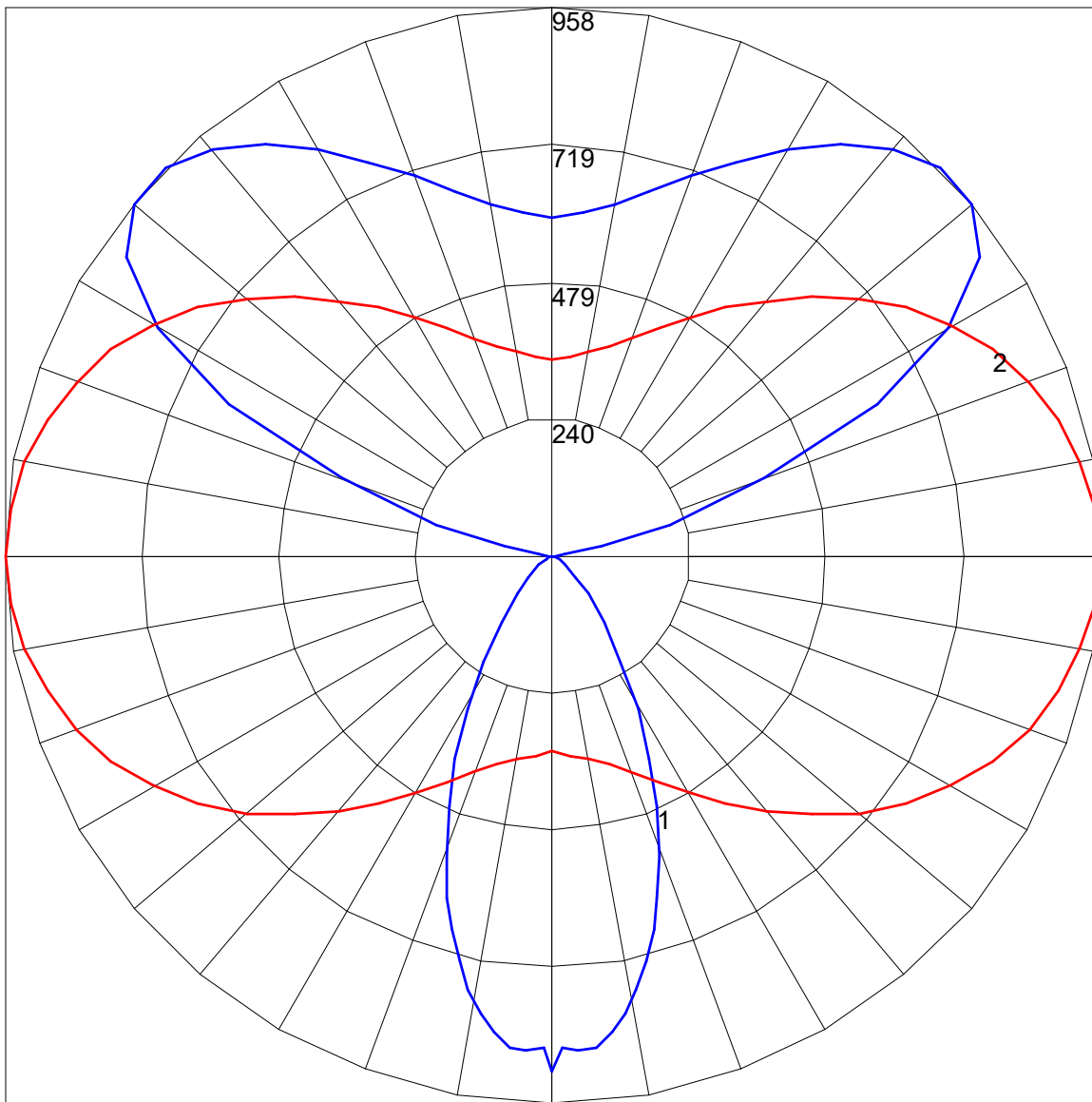
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	91	91	91	91	70	70	70	52	52	52	34	34	34	26
1	93	89	86	83	83	80	77	75	63	61	59	46	45	44	32	31	31	24
2	86	79	74	69	76	71	66	63	56	53	50	42	40	38	29	28	27	21
3	79	70	64	59	70	63	58	53	50	46	43	38	36	34	26	25	24	19
4	72	63	56	50	65	57	51	46	45	41	38	34	32	30	24	23	22	17
5	67	56	49	44	60	51	45	40	41	36	33	31	29	26	22	21	20	16
6	62	51	44	38	55	46	40	35	37	33	29	29	26	24	21	19	18	15
7	57	46	39	34	51	42	36	31	34	30	26	26	23	21	19	18	16	13
8	53	42	35	30	48	38	32	28	31	27	24	24	21	19	18	16	15	12
9	50	39	32	27	45	35	29	25	29	24	21	23	20	18	17	15	14	12
10	47	36	29	25	42	32	27	23	27	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.)