

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-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	85	87	89	90
Total Lumens, 4' rail length (1219mm)	4030	4157	4242	4284
Lumens per foot (305mm)	1007	1039	1061	1071
Lumens per foot UP (305mm)	640	660	674	681
Lumens per foot DOWN (305mm)	367	379	386	390
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.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911510 (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-G1S2-AL

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

[MORE] 60° 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	4242
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
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	2277	4512	24837
55	1228	2339	17533
65	726	1277	12116
75	393	631	8088
85	0	107	3672

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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	1124.00	1124.00	1124.00	1124.00	1124.00	1124.00	1124.00	1124.00	1124.00	1124.00
5	1105.00	1104.00	1104.00	1104.00	1104.00	1104.00	1103.00	1107.00	1110.00	1112.00
10	1048.00	1043.00	1044.00	1044.00	1045.00	1045.00	1047.00	1056.00	1064.00	1070.00
15	942.00	932.00	934.00	937.00	941.00	943.00	950.00	968.00	985.00	997.00
20	790.00	777.00	782.00	787.00	792.00	798.00	810.00	836.00	865.00	891.00
25	616.00	600.00	607.00	614.00	624.00	634.00	653.00	686.00	724.00	755.00
30	451.00	437.00	444.00	452.00	465.00	476.00	494.00	529.00	571.00	607.00
35	318.00	307.00	313.00	321.00	328.00	339.00	357.00	389.00	428.00	467.00
40	224.00	217.00	221.00	227.00	236.00	244.00	257.00	281.00	313.00	345.00
45	161.00	156.00	160.00	164.00	169.00	175.00	185.00	204.00	227.00	252.00
50	120.00	117.00	119.00	122.00	126.00	130.00	137.00	149.00	166.00	184.00
55	93.00	91.00	92.00	94.00	97.00	99.00	104.00	113.00	123.00	137.00
60	73.00	72.00	73.00	74.00	76.00	78.00	81.00	86.00	93.00	102.00
65	57.00	56.00	57.00	58.00	59.00	60.00	62.00	65.00	70.00	76.00
70	43.00	43.00	43.00	44.00	44.00	45.00	46.00	49.00	51.00	55.00
75	31.00	30.00	31.00	31.00	31.00	32.00	32.00	33.00	35.00	37.00
80	19.00	19.00	19.00	19.00	19.00	19.00	19.00	20.00	21.00	22.00
85	0.00	0.00	0.00	1.00	1.00	1.00	2.00	2.00	4.00	6.00
90	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88
95	22.72	27.95	26.37	26.97	27.88	29.41	30.17	36.23	39.69	42.36
100	87.76	92.11	94.28	98.77	104.55	110.71	117.81	123.81	131.83	132.53
105	210.65	196.21	209.98	215.48	221.76	232.02	239.80	246.36	252.57	250.98
110	392.72	379.80	381.10	389.40	402.82	403.54	417.51	407.22	396.92	372.27
115	628.18	625.60	603.44	592.03	586.67	583.41	567.41	544.96	516.47	481.20
120	799.43	794.43	783.42	762.71	743.69	717.08	688.83	656.77	607.42	555.75
125	910.83	905.01	891.50	874.43	853.09	812.83	776.50	723.86	671.10	611.69
130	958.45	953.31	938.58	916.29	889.14	853.00	807.09	757.28	700.31	641.74
135	957.94	953.61	939.84	918.17	888.20	853.47	809.57	764.06	711.45	658.91
140	926.93	922.51	910.02	890.60	864.79	832.71	794.81	753.55	709.43	664.09
145	877.97	874.03	864.05	848.62	826.75	800.13	769.09	733.84	697.27	659.96
150	820.97	817.41	810.11	797.53	780.75	759.55	734.63	707.60	680.00	649.99
155	761.79	759.20	754.37	744.75	732.61	717.08	698.81	679.19	658.81	638.19
160	706.13	704.76	700.80	695.37	686.73	676.88	665.56	651.95	637.67	624.88
165	658.44	657.43	654.93	651.98	647.98	642.01	635.38	628.13	620.32	611.28
170	622.81	622.26	621.05	619.70	618.03	616.07	613.82	610.26	606.57	602.72
175	601.44	601.18	600.97	600.34	599.87	599.36	598.81	598.22	597.60	596.95
180	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	1124.00	1124.00	1124.00	1124.00	1124.00	1124.00	1124.00	1124.00	1124.00
5	1114.00	1115.00	1116.00	1117.00	1118.00	1118.00	1119.00	1119.00	1119.00
10	1075.00	1080.00	1085.00	1089.00	1092.00	1094.00	1096.00	1097.00	1097.00
15	1008.00	1019.00	1031.00	1040.00	1047.00	1052.00	1055.00	1058.00	1058.00
20	913.00	933.00	952.00	968.00	979.00	988.00	994.00	998.00	999.00
25	786.00	819.00	847.00	870.00	889.00	903.00	912.00	918.00	920.00
30	647.00	685.00	723.00	754.00	780.00	798.00	810.00	818.00	820.00
35	508.00	552.00	591.00	628.00	657.00	679.00	694.00	702.00	705.00
40	382.00	422.00	462.00	500.00	531.00	554.00	570.00	579.00	582.00
45	282.00	314.00	350.00	384.00	412.00	435.00	451.00	460.00	463.00
50	206.00	231.00	260.00	287.00	311.00	331.00	346.00	354.00	357.00
55	152.00	170.00	190.00	211.00	231.00	248.00	260.00	267.00	271.00
60	113.00	125.00	140.00	155.00	169.00	181.00	191.00	197.00	199.00

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CANDELA TABULATION - (Cont.)

65	83.00	91.00	101.00	111.00	121.00	130.00	137.00	142.00	143.00
70	59.00	64.00	71.00	77.00	84.00	90.00	95.00	98.00	99.00
75	39.00	42.00	46.00	50.00	54.00	57.00	60.00	62.00	63.00
80	23.00	24.00	26.00	28.00	30.00	31.00	33.00	34.00	34.00
85	8.00	9.00	10.00	11.00	11.00	12.00	12.00	13.00	13.00
90	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88	4.88
95	42.99	53.19	51.95	41.69	38.78	39.04	38.27	36.85	37.64
100	132.32	131.77	122.04	108.71	99.63	91.59	84.39	81.64	81.98
105	244.09	225.11	203.12	177.19	157.78	143.37	133.03	127.79	126.99
110	338.05	307.34	273.78	239.33	213.43	196.02	183.44	177.08	176.79
115	434.67	383.23	337.06	297.41	267.24	246.59	232.36	224.77	224.15
120	500.44	441.82	391.04	350.33	317.63	295.31	281.68	272.89	269.33
125	548.64	490.45	438.91	396.26	362.10	338.66	324.57	316.05	311.83
130	583.46	529.01	480.30	438.35	404.42	378.95	361.79	350.91	342.76
135	605.93	556.85	511.67	474.14	442.97	419.31	403.68	393.96	389.95
140	618.40	576.72	537.62	502.90	475.75	453.44	438.54	429.46	425.24
145	623.31	588.68	556.37	527.36	503.63	484.97	470.98	463.66	459.44
150	621.81	594.69	568.42	546.79	526.45	512.80	500.28	495.12	491.63
155	617.08	596.88	578.39	560.38	547.41	535.94	527.38	522.93	519.71
160	611.37	597.09	583.29	573.42	563.90	554.74	550.73	547.33	544.77
165	602.89	596.01	589.12	582.28	575.53	572.46	569.90	567.57	565.73
170	598.75	594.70	590.69	588.77	587.01	585.37	583.86	582.44	581.24
175	596.28	595.59	594.88	594.17	593.46	592.75	592.03	591.36	590.71
180	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	382.09	N.A.	9.00
0-30	728.26	N.A.	17.20
0-40	1034.85	N.A.	24.40
0-60	1401.47	N.A.	33.00
0-80	1534.65	N.A.	36.20
0-90	1545.84	N.A.	36.40
10-90	1441.13	N.A.	34.00
20-40	652.76	N.A.	15.40
20-50	874.50	N.A.	20.60
40-70	454.97	N.A.	10.70
60-80	133.18	N.A.	3.10
70-80	44.83	N.A.	1.10
80-90	11.18	N.A.	0.30
90-110	270.39	N.A.	6.40
90-120	701.64	N.A.	16.50
90-130	1239.49	N.A.	29.20
90-150	2168.42	N.A.	51.10
90-180	2695.79	N.A.	63.60
110-180	2425.4	N.A.	57.20
0-180	4241.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	104.70
10-20	277.39
20-30	346.18
30-40	306.59
40-50	221.73
50-60	144.88
60-70	88.35
70-80	44.83
80-90	11.18
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

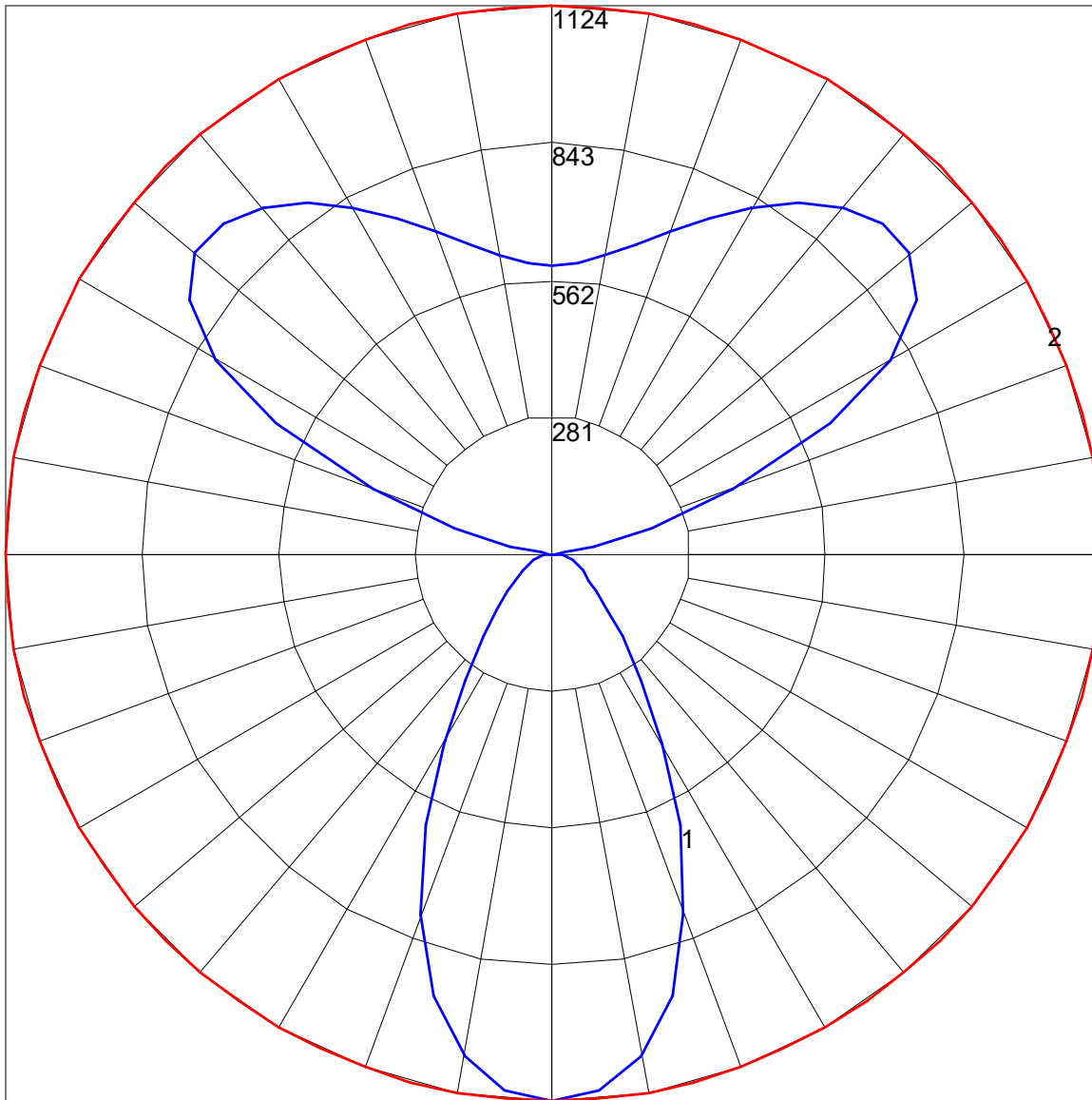
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	96	92	88	85	87	83	80	78	68	66	64	53	52	51	40	39	38	32
2	88	81	76	71	79	74	69	65	60	57	54	48	46	44	36	35	34	29
3	81	72	66	60	73	66	60	56	54	50	47	43	40	38	33	31	30	25
4	74	64	57	52	67	59	53	48	49	44	41	39	36	34	30	28	27	23
5	69	58	51	45	62	53	47	42	44	39	36	36	32	30	28	26	24	21
6	63	52	45	40	58	48	42	37	40	35	32	33	29	27	26	23	22	19
7	59	48	40	35	54	44	37	33	37	32	28	30	27	24	24	21	20	17
8	55	43	36	31	50	40	34	29	34	29	26	28	24	22	22	20	18	16
9	51	40	33	28	47	37	31	27	31	26	23	26	22	20	21	18	17	14
10	48	37	30	26	44	34	28	24	29	24	21	24	21	18	19	17	15	13

POLAR GRAPH



Maximum Candela = 1124 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)