

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-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	71	73	74	75
Total Lumens, 4' rail length (1219mm)	3352	3457	3528	3563
Lumens per foot (305mm)	838	864	882	891
Lumens per foot UP (305mm)	640	660	674	681
Lumens per foot DOWN (305mm)	198	204	208	210
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_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911512 (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-G1S1-BL

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

[MORE] 40° 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	3528
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
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	896	1821	12962
55	329	673	7018
65	117	275	3892
75	51	110	2195
85	0	13	876

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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	824.20	824.20	824.20	824.20	824.20	824.20	824.20	824.20	824.20	824.20
1.0	762.97	779.02	792.51	805.93	812.80	814.43	816.78	817.91	819.63	843.06
3.0	782.67	785.98	797.04	807.98	816.57	820.30	821.48	822.15	823.07	842.94
5.0	768.42	775.29	790.08	800.94	806.76	810.54	812.63	814.43	816.20	818.67
7.0	747.96	758.19	770.01	781.70	788.07	791.72	793.06	795.53	799.01	802.87
9.0	732.79	738.83	752.91	764.01	770.30	767.95	769.17	772.69	783.63	790.46
11.0	728.26	724.37	729.86	736.44	737.36	733.80	736.73	742.72	750.81	761.79
13.0	686.10	682.45	685.51	692.60	694.23	690.71	694.48	699.30	712.09	725.41
15.0	584.51	589.07	602.53	610.66	619.50	634.97	644.77	658.06	672.90	687.32
17.0	558.60	556.55	562.79	571.05	577.88	587.90	596.16	611.41	629.10	647.29
19.5	522.89	517.74	516.31	519.84	518.07	522.31	516.40	534.46	556.30	579.81
22.5	390.54	393.72	396.74	401.31	417.19	429.77	447.29	448.46	473.73	500.60
25.5	346.11	341.12	340.95	342.46	347.03	357.01	371.17	369.12	395.27	423.44
29.0	266.98	260.99	259.44	264.47	268.57	273.81	282.95	302.86	326.41	353.23
33.0	176.87	179.17	177.37	179.13	184.75	193.80	207.84	226.20	229.97	255.45
37.5	113.67	115.05	114.63	117.44	123.05	130.93	141.33	155.28	157.67	178.00
42.5	77.87	75.65	75.23	76.95	80.14	82.52	89.73	99.29	111.44	126.87
47.5	48.87	48.49	47.91	48.79	50.17	52.68	51.55	58.13	66.39	76.57
55.0	24.90	24.52	24.14	24.60	25.36	26.74	26.28	29.72	34.12	39.44
65.0	9.22	9.47	9.51	9.81	10.44	11.19	12.28	13.66	14.21	16.39
75.0	4.02	4.02	3.98	4.19	4.28	4.48	4.90	5.41	5.62	6.45
85.0	0.00	0.00	0.00	0.00	0.08	0.08	0.17	0.25	0.42	0.75
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	824.20	824.20	824.20	824.20	824.20	824.20	824.20	824.20	824.20
1.0	843.73	844.49	845.07	845.99	847.04	847.55	847.96	848.26	848.80
3.0	843.69	844.70	845.49	846.41	847.13	847.88	848.55	848.72	849.05
5.0	836.35	838.70	840.50	842.35	844.28	845.20	846.12	846.46	847.04
7.0	818.96	823.07	827.13	831.16	834.09	836.40	838.03	839.12	840.17
9.0	797.75	804.54	811.04	816.53	821.56	825.12	828.01	829.90	830.86
11.0	772.02	781.95	791.09	799.81	806.14	811.75	816.28	819.13	820.39
13.0	739.08	752.45	764.98	777.01	786.86	793.94	800.35	804.00	805.13
15.0	703.03	717.95	732.04	748.93	761.16	772.52	781.16	786.69	791.80

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CANDELA TABULATION - (Cont.)

17.0	666.57	685.26	701.23	721.22	737.90	751.36	760.70	767.91	770.68
19.5	605.29	630.52	654.79	678.72	698.63	714.01	727.09	734.72	735.47
22.5	530.19	559.40	588.19	617.07	640.46	660.91	677.34	687.78	690.88
25.5	454.16	486.60	519.00	551.77	579.94	602.57	621.60	633.29	636.64
29.0	368.07	401.52	436.26	470.38	499.72	527.30	549.68	563.51	570.17
33.0	285.00	317.06	349.59	384.25	415.77	442.38	464.30	478.80	482.99
37.5	202.44	229.68	259.06	289.99	317.48	343.80	365.14	378.93	383.16
42.5	145.52	164.84	186.93	210.73	224.94	248.04	267.19	279.39	285.25
47.5	89.27	103.98	120.66	138.85	156.58	172.43	186.59	195.73	197.99
55.0	46.15	54.07	63.20	73.18	82.73	92.54	100.80	106.37	108.47
65.0	19.11	22.30	26.03	30.26	34.49	38.85	42.46	44.97	45.94
75.0	7.38	8.55	9.89	11.48	12.99	14.50	15.88	16.81	17.10
85.0	1.17	1.68	2.10	2.31	2.47	2.64	2.81	3.02	3.10
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	259.23	N.A.	7.30
0-30	464.63	N.A.	13.20
0-40	613.25	N.A.	17.40
0-60	775.00	N.A.	22.00
0-80	825.70	N.A.	23.40
0-90	832.54	N.A.	23.60
10-90	769.74	N.A.	21.80
20-40	354.02	N.A.	10.00
20-50	467.18	N.A.	13.20
40-70	196.89	N.A.	5.60
60-80	50.70	N.A.	1.40
70-80	15.56	N.A.	0.40
80-90	6.84	N.A.	0.20
90-110	270.39	N.A.	7.70
90-120	701.64	N.A.	19.90
90-130	1239.49	N.A.	35.10
90-150	2168.42	N.A.	61.50
90-180	2695.79	N.A.	76.40
110-180	2425.4	N.A.	68.70
0-180	3528.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	62.80
10-20	196.43
20-30	205.40
30-40	148.62
40-50	113.16
50-60	48.59
60-70	35.14
70-80	15.56
80-90	6.84
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

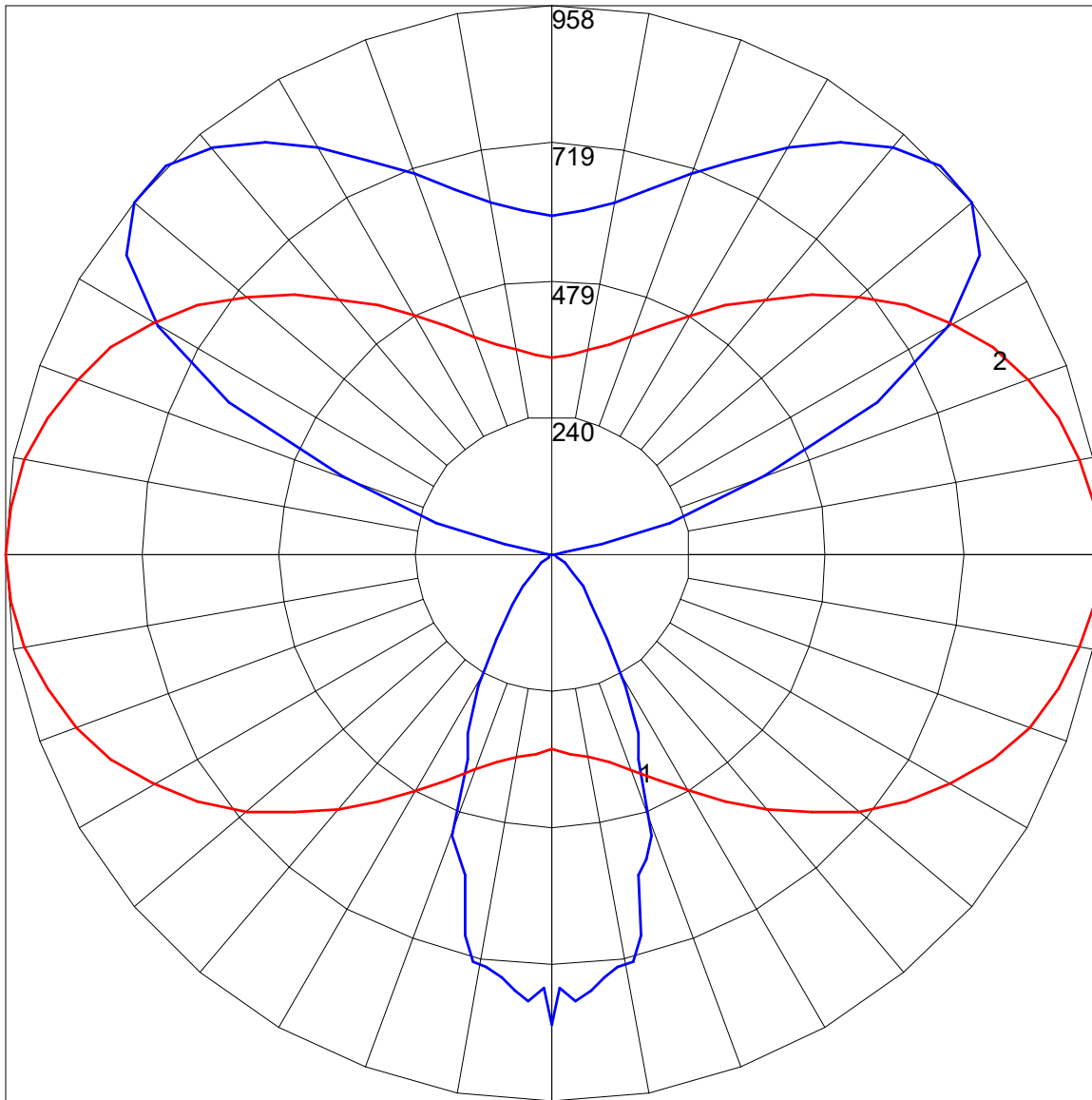
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	24
1	93	89	85	82	82	79	76	74	61	59	58	44	43	42	29	29	28	21
2	85	78	73	68	75	70	66	62	54	51	49	40	38	37	27	26	25	19
3	78	70	63	58	69	62	57	53	49	45	42	36	34	32	24	23	22	17
4	72	62	55	50	64	56	50	45	44	40	37	33	30	28	23	21	20	16
5	66	56	48	43	59	50	44	39	40	35	32	30	27	25	21	19	18	14
6	61	50	43	38	54	45	39	35	36	32	28	27	25	22	19	18	16	13
7	57	46	38	33	51	41	35	31	33	29	25	25	22	20	18	16	15	12
8	53	42	35	30	47	38	32	27	30	26	23	23	20	18	17	15	14	11
9	49	38	31	27	44	35	29	25	28	24	21	22	19	17	16	14	13	11
10	46	35	28	24	41	32	26	22	26	22	19	20	17	15	15	13	12	10

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.)