

IES Report

DoubleBox™ | 107 | 120° Batwing, up | White Baffle, down | 90 CRI | LO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-G1WB-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	65	67	68	69
Total Lumens, 4' rail length (1219mm)	1919	1980	2020	2060
Lumens per foot (305mm)	480	495	505	515
Lumens per foot UP (305mm)	310	320	326	333
Lumens per foot DOWN (305mm)	170	175	179	182
Input Power (W), 4' rail length (1219mm)	29.9	29.9	29.9	29.9
Watts per foot (305mm)	7.5	7.5	7.5	7.5
CRI	96	96	96	96

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_LO_359_G1WB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L011800101 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 1/9/2018
[MANUFAC] Vode Lighting
[LUMCAT] 107-DB-48-Z-LO-359-G1WB
[LUMINAIRE] DoubleBox LED, 48", 3500K, 90 CRI, zipper board,
[MORE] 120° batwing lens up with white polycarbonate reflectors/white baffle down, low output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2020
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	29.9
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)	0.08 ft
Luminous Width (90-270)	3.77 ft
Luminous Height	0.21 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	849	2186	4729
55	674	1115	3685
65	490	591	2977
75	140	222	1768
85	33	45	500

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	569.5	569.5	569.5	569.5	569.5	569.5	569.5	569.5	569.5	569.5
5	568.0	565.5	563.0	560.5	558.0	555.5	553.0	551.0	549.0	547.0
10	562.0	556.5	551.5	546.5	542.0	537.5	533.5	526.0	519.0	513.0
15	551.5	544.0	536.5	529.5	521.5	509.5	498.0	488.0	478.5	469.0
20	535.5	525.5	516.5	506.0	489.5	474.5	459.5	445.0	431.5	419.0
25	513.5	501.5	490.0	472.0	454.0	435.5	417.0	400.0	380.5	362.5
30	487.5	474.0	458.5	435.5	413.0	391.5	369.5	346.5	324.0	302.5
35	454.0	439.0	418.0	392.5	367.0	341.5	316.0	289.0	263.0	237.0
40	208.5	205.0	206.0	217.5	239.5	263.5	247.5	221.0	197.5	171.5
45	61.0	68.5	82.5	92.5	95.5	98.5	132.5	142.0	133.5	125.5
50	55.0	57.0	60.0	63.5	68.0	74.0	80.0	87.0	89.5	90.0
55	51.5	52.5	54.0	56.0	58.0	61.5	64.5	65.0	66.0	66.5
60	48.0	47.5	47.0	46.5	46.5	47.0	48.0	48.5	49.0	49.5
65	38.5	38.0	36.0	34.5	33.5	33.0	33.5	33.5	34.5	35.5
70	22.5	22.5	22.0	21.5	21.5	21.0	21.5	21.5	22.0	22.5
75	11.0	11.0	11.5	11.5	11.5	11.5	11.5	11.5	12.5	13.0
80	6.5	6.5	6.0	6.0	6.0	6.0	5.5	5.5	5.5	6.0
85	2.5	3.0	3.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5
90	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
95	19.0	21.0	20.0	20.5	20.5	21.0	21.5	22.5	24.0	23.0
100	69.5	62.5	64.5	65.0	64.5	64.5	64.5	63.5	62.5	61.0
105	122.0	113.5	114.5	115.0	114.5	114.0	113.0	112.0	110.0	105.5
110	180.0	176.5	168.0	167.5	168.5	169.5	167.5	162.5	159.0	152.5
115	237.5	237.5	231.0	225.5	223.0	222.5	221.0	217.0	211.5	202.5
120	294.0	293.5	292.5	288.0	283.5	279.0	275.5	271.5	262.0	248.5
125	346.0	345.5	344.5	343.0	340.5	334.5	330.0	319.0	307.5	291.5
130	391.0	390.5	388.5	386.0	382.5	377.0	369.0	358.0	342.5	322.0
135	427.0	426.0	423.5	420.0	415.5	409.5	398.5	387.0	367.5	347.5
140	452.5	451.5	448.5	444.0	438.0	431.0	418.0	403.0	385.0	361.0
145	467.0	465.0	461.5	456.0	448.5	439.0	427.5	409.5	390.5	368.0
150	465.5	463.5	459.5	453.0	444.5	433.5	421.5	405.0	386.5	366.0
155	446.0	444.0	441.0	434.5	426.0	415.5	403.5	390.5	374.0	357.5
160	413.0	412.0	408.5	403.5	396.5	388.5	379.0	367.5	355.5	344.5
165	373.0	372.0	369.5	366.5	363.0	357.5	351.0	344.5	337.5	329.0
170	336.5	336.0	335.0	333.5	332.0	330.0	327.5	324.5	321.0	317.5
175	313.0	313.0	312.5	312.5	312.0	311.5	311.0	310.5	310.0	309.5
180	305.5	305.5	305.5	305.5	305.5	305.5	305.5	305.5	305.5	305.5

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	569.5	569.5	569.5	569.5	569.5	569.5	569.5	569.5	569.5
5	545.5	544.0	542.5	541.5	540.5	539.5	539.0	539.0	539.0
10	507.0	502.5	498.0	493.5	490.0	487.0	485.0	483.0	483.0
15	460.0	451.5	444.0	438.0	433.0	428.5	425.0	422.5	422.0
20	406.5	394.5	384.5	375.0	367.0	360.5	355.5	352.0	351.0
25	346.5	331.5	318.0	306.5	296.5	288.5	282.5	277.0	275.5
30	282.5	263.5	244.5	228.5	215.5	205.5	199.0	191.0	188.0
35	211.5	187.5	174.5	165.5	158.5	153.0	149.0	146.0	145.0
40	156.0	142.5	135.5	131.0	127.0	123.5	121.5	120.0	120.0
45	119.0	113.5	109.5	106.5	104.0	101.5	100.0	99.0	99.0
50	91.5	89.5	87.0	85.5	84.0	82.0	81.0	80.0	79.5
55	68.0	67.5	67.5	67.0	66.0	65.5	64.5	64.5	64.0
60	50.0	50.5	51.0	51.0	51.0	51.0	50.5	50.5	50.5

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CANDELA TABULATION - (Cont.)

65	36.0	37.5	37.5	37.5	37.5	38.5	40.0	39.5	39.5
70	23.5	24.0	25.0	25.5	25.5	26.0	26.5	26.0	26.0
75	13.5	14.0	14.5	15.0	15.5	15.5	16.0	15.5	15.5
80	6.5	6.5	7.0	7.0	7.5	7.5	7.5	7.5	7.5
85	2.5	2.5	2.5	2.5	2.5	2.0	2.5	2.0	2.0
90	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
95	21.5	19.5	17.0	15.5	14.0	13.0	12.0	12.0	12.0
100	57.5	51.5	46.5	42.5	40.0	38.5	37.5	37.0	37.5
105	98.0	89.0	79.0	71.0	65.0	62.5	62.0	61.0	60.0
110	142.5	129.5	115.0	103.5	95.5	91.0	89.0	88.5	88.0
115	186.0	167.5	150.5	135.5	125.0	119.0	116.0	114.5	114.0
120	231.0	208.0	184.5	165.0	152.5	145.5	141.5	139.5	139.0
125	267.5	241.0	215.0	192.0	178.0	169.5	165.0	162.5	162.0
130	298.0	269.0	242.5	219.5	202.5	192.0	185.5	182.5	182.0
135	319.5	291.5	264.5	242.0	224.0	212.0	205.5	201.5	200.5
140	336.0	308.0	282.5	260.0	243.5	230.5	223.5	219.5	217.5
145	343.0	319.0	296.0	275.5	260.0	248.5	240.5	236.5	234.5
150	345.0	324.0	304.0	287.5	273.0	264.0	255.5	252.5	250.5
155	340.0	324.0	309.0	294.5	285.0	276.5	270.0	267.0	265.0
160	332.5	320.5	309.0	301.0	293.5	286.0	283.0	280.5	278.0
165	321.5	315.5	309.5	304.0	297.5	295.5	293.0	291.0	289.5
170	314.0	310.0	306.5	305.0	303.0	301.5	300.5	299.0	297.5
175	308.5	308.0	307.5	306.5	306.0	305.0	304.5	304.0	303.0
180	305.5	305.5	305.5	305.5	305.5	305.5	305.5	305.5	305.5

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	184.84	N.A.	9.20
0-30	356.54	N.A.	17.70
0-40	514.75	N.A.	25.50
0-60	661.12	N.A.	32.70
0-80	711.93	N.A.	35.20
0-90	715.19	N.A.	35.40
10-90	663.69	N.A.	32.90
20-40	329.91	N.A.	16.30
20-50	419.59	N.A.	20.80
40-70	182.31	N.A.	9.00
60-80	50.81	N.A.	2.50
70-80	14.87	N.A.	0.70
80-90	3.26	N.A.	0.20
90-110	125.22	N.A.	6.20
90-120	305.66	N.A.	15.10
90-130	542.82	N.A.	26.90
90-150	1016.68	N.A.	50.30
90-180	1304.75	N.A.	64.60
110-180	1179.53	N.A.	58.40
0-180	2019.94	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	51.50
10-20	133.34
20-30	171.70
30-40	158.22
40-50	89.68
50-60	56.69
60-70	35.94
70-80	14.87
80-90	3.26
90-100	25.01
100-110	100.21
110-120	180.44
120-130	237.16
130-140	250.78
140-150	223.08
150-160	164.23
160-170	94.09
170-180	29.75

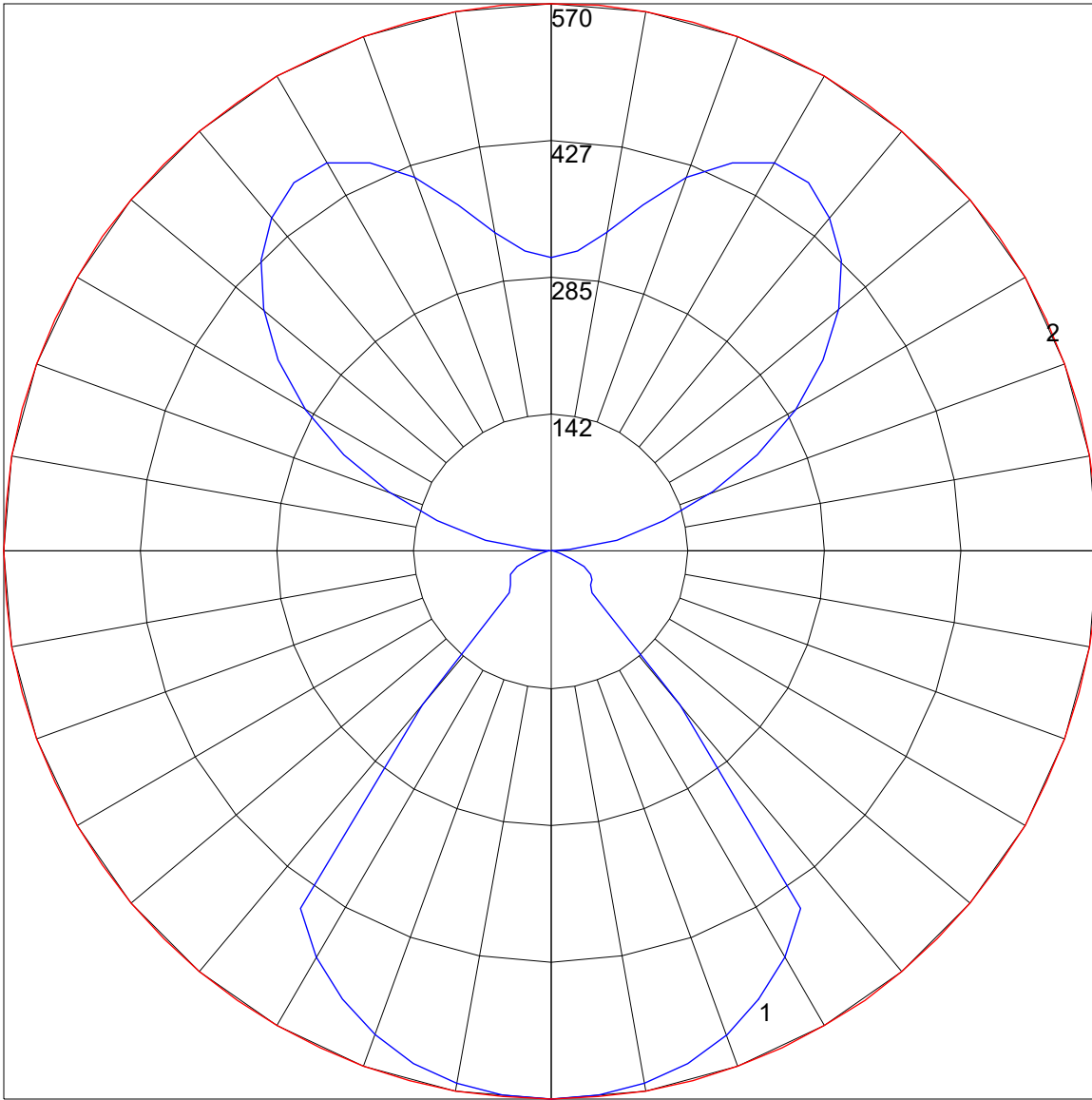
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35
1	95	92	88	85	86	83	80	78	67	65	64	53	52	50	39	39	38	32
2	88	81	76	71	79	74	69	66	60	57	54	48	46	44	36	35	34	28
3	81	72	66	61	73	66	60	56	54	50	47	43	40	38	33	31	30	25
4	74	65	58	52	67	59	53	49	49	45	41	39	36	34	30	28	27	23
5	69	58	51	46	62	53	47	42	44	40	36	36	33	30	28	26	24	21
6	64	53	45	40	58	49	42	37	40	36	32	33	30	27	26	24	22	19
7	59	48	41	36	54	44	38	33	37	32	29	30	27	24	24	22	20	17
8	55	44	37	32	50	40	34	30	34	29	26	28	25	22	22	20	18	16
9	52	40	33	29	47	37	31	27	31	27	24	26	23	20	21	19	17	15
10	48	37	30	26	44	34	29	25	29	25	22	24	21	19	19	17	16	14

POLAR GRAPH



Maximum Candela = 569.5 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)