

IES Report

DoubleBox™ | 107 | 120° Batwing, up | 60° Symmetric down | 90 CRI | LO

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	56	58	59	60
Total Lumens, 4' rail length (1219mm)	1654	1706	1741	1776
Lumens per foot (305mm)	413	427	435	444
Lumens per foot UP (305mm)	298	308	314	320
Lumens per foot DOWN (305mm)	115	119	122	124
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_G1S2_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L011800108 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 1/12/2018
[MANUFAC] Vode Lighting
[LUMCAT] 107-DB-48-Z-LO-359-G1S2-BL
[LUMINAIRE] DoubleBox LED, 48", 3500K, 90 CRI, zipper board,
[MORE] 120° batwing lens up with white polycarbonate reflectors/60° black symmetric lens down, low output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1741
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
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	422	1093	6326
55	167	431	3242
65	78	178	1730
75	37	75	976
85	5	14	426

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	480.450	480.450	480.450	480.450	480.450	480.450	480.450	480.450	480.450	480.450
5	466.000	465.650	465.280	465.475	465.530	465.695	465.970	466.355	466.845	467.440
10	423.240	422.660	423.225	424.200	425.825	428.080	430.905	433.055	435.855	439.255
15	357.100	356.415	358.245	361.115	365.150	369.180	374.595	381.325	389.295	397.170
20	277.345	276.915	280.340	285.055	290.445	298.110	307.420	316.845	328.225	338.840
25	198.165	198.775	202.555	207.505	214.985	223.725	233.655	245.630	258.040	272.250
30	130.495	131.220	134.910	140.535	147.775	155.960	165.245	177.060	191.625	205.790
35	81.420	82.330	85.350	90.265	95.610	101.885	109.190	120.985	132.775	145.985
40	49.490	50.295	52.560	55.755	59.515	63.490	70.290	78.435	86.905	98.755
45	30.350	30.985	32.550	34.460	36.600	39.040	44.420	49.035	56.340	62.785
50	19.265	19.645	20.565	21.720	22.955	25.125	27.980	31.380	35.370	40.600
55	12.745	12.975	13.525	14.240	14.850	16.395	17.755	20.160	22.735	25.705
60	8.720	8.890	9.205	9.550	9.965	10.740	11.745	12.795	14.710	16.790
65	6.105	6.200	6.310	6.485	6.820	7.170	7.850	8.580	9.540	10.690
70	4.235	4.255	4.385	4.575	4.825	5.080	5.355	5.690	6.250	6.965
75	2.865	2.860	3.035	3.255	3.335	3.430	3.580	3.760	4.045	4.415
80	1.205	1.480	1.545	1.620	1.660	1.725	1.815	1.980	2.215	2.480
85	0.415	0.655	0.655	0.625	0.610	0.630	0.605	0.640	0.695	0.790
90	0.420	0.455	0.455	0.455	0.455	0.455	0.455	0.455	0.455	0.455
95	16.815	19.460	19.150	19.740	20.460	21.150	21.920	23.665	22.540	22.070
100	66.305	61.645	62.960	63.160	63.245	63.115	62.555	62.305	59.855	57.240
105	116.585	110.195	110.225	110.615	109.690	109.180	108.095	106.360	103.855	98.950
110	170.225	167.880	162.520	161.020	161.630	160.330	159.135	156.535	153.845	145.485
115	226.980	226.655	222.150	218.220	215.910	214.640	211.555	207.450	201.670	192.535
120	281.080	280.440	279.600	276.535	272.640	268.015	263.545	258.555	248.635	235.125
125	330.650	329.735	328.650	327.000	324.595	318.985	313.695	302.855	291.120	275.050
130	373.085	372.175	370.130	367.275	363.770	358.075	349.730	338.420	323.585	304.290
135	406.630	405.885	403.310	399.440	394.220	388.035	376.995	365.620	347.600	329.055
140	430.045	428.915	425.695	420.990	415.020	407.640	395.575	381.225	364.590	343.485
145	441.880	440.425	437.000	431.870	424.320	415.455	404.765	388.125	370.885	351.275
150	439.885	438.230	435.020	428.945	421.090	411.295	399.980	385.585	369.065	351.150
155	423.030	421.420	418.665	412.820	405.585	396.405	385.680	374.325	360.065	345.380
160	394.630	393.525	390.810	386.930	380.700	373.630	365.540	355.785	345.540	335.570
165	360.420	359.675	357.830	355.475	352.225	347.415	342.070	336.245	329.985	322.800
170	329.115	328.715	327.815	326.695	325.280	323.575	321.590	318.720	315.685	312.495
175	307.985	307.840	307.680	307.335	307.015	306.655	306.250	305.800	305.320	304.805
180	300.500	300.500	300.500	300.500	300.500	300.500	300.500	300.500	300.500	300.500

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	480.450	480.450	480.450	480.450	480.450	480.450	480.450	480.450	480.450
5	468.135	468.915	469.790	470.740	471.760	472.850	473.925	475.170	476.425
10	443.225	447.730	452.575	453.900	455.435	457.240	459.290	461.500	464.050
15	404.015	409.370	415.590	422.625	430.610	432.895	435.495	438.470	442.255
20	349.395	360.430	372.230	379.850	388.620	398.665	401.435	404.645	409.330
25	288.085	301.785	314.725	329.135	338.900	349.060	356.905	359.595	364.615
30	221.605	238.390	254.415	268.430	283.025	292.715	304.090	306.215	311.345
35	159.750	173.950	191.960	206.910	220.610	231.285	239.045	243.760	249.400
40	110.100	124.220	137.225	149.595	162.085	173.655	179.775	183.885	187.125
45	73.025	82.415	92.435	103.085	112.940	122.050	126.890	130.160	132.445
50	46.295	53.345	60.415	67.560	74.545	80.125	84.055	86.660	87.565
55	29.750	33.730	38.345	43.490	47.605	51.225	54.215	56.020	56.300
60	19.095	21.415	24.665	27.790	30.475	33.225	35.280	35.500	35.995

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CANDELA TABULATION - (Cont.)

65	12.230	13.815	15.600	17.405	19.215	20.765	21.655	22.305	22.960
70	7.830	8.890	9.980	11.000	12.070	13.045	13.590	14.055	14.490
75	4.895	5.500	6.145	6.685	7.240	7.760	8.130	8.370	8.555
80	2.695	3.085	3.395	3.615	3.910	4.090	4.250	4.375	4.445
85	0.875	0.960	1.080	1.255	1.585	1.675	1.605	1.670	1.705
90	0.455	0.455	0.435	0.415	0.435	0.415	0.500	0.500	0.415
95	20.855	18.690	16.700	15.040	13.290	12.115	11.520	11.430	11.625
100	53.635	49.090	44.940	41.095	39.055	37.275	36.535	35.700	36.285
105	92.435	85.100	77.245	69.735	64.070	60.635	59.235	58.190	57.545
110	135.545	124.140	112.075	101.200	93.680	89.080	86.075	84.495	84.200
115	179.140	163.190	147.160	133.185	123.020	116.280	112.075	109.940	110.275
120	218.760	198.700	177.995	161.815	150.555	142.930	138.100	135.070	134.230
125	253.025	230.650	208.480	188.590	175.620	166.830	161.160	158.085	157.105
130	282.710	258.535	235.550	215.315	199.440	188.885	181.670	177.755	177.490
135	304.465	280.645	257.435	237.425	221.145	209.555	202.405	198.075	196.260
140	321.275	297.530	275.415	255.495	240.115	227.850	220.405	215.920	213.780
145	329.995	309.380	288.935	270.915	256.230	245.195	237.300	233.315	231.050
150	332.980	314.845	297.435	282.570	268.860	260.075	252.145	249.195	247.115
155	330.660	316.320	302.885	289.935	280.600	272.360	266.365	263.550	261.440
160	325.095	314.265	303.890	296.395	289.150	282.045	279.155	276.555	274.435
165	316.095	310.510	304.950	299.445	293.890	291.640	289.625	287.730	286.105
170	309.170	305.740	302.305	300.810	299.380	298.000	296.680	295.405	294.240
175	304.260	303.690	303.100	302.495	301.880	301.255	300.615	300.000	299.390
180	300.500	300.500	300.500	300.500	300.500	300.500	300.500	300.500	300.500

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	154.30	N.A.	8.90
0-30	280.95	N.A.	16.10
0-40	379.29	N.A.	21.80
0-60	465.63	N.A.	26.70
0-80	484.32	N.A.	27.80
0-90	485.72	N.A.	27.90
10-90	441.83	N.A.	25.40
20-40	224.99	N.A.	12.90
20-50	282.86	N.A.	16.20
40-70	99.46	N.A.	5.70
60-80	18.69	N.A.	1.10
70-80	5.57	N.A.	0.30
80-90	1.40	N.A.	0.10
90-110	120.47	N.A.	6.90
90-120	294.07	N.A.	16.90
90-130	521.29	N.A.	29.90
90-150	975.50	N.A.	56.00
90-180	1255.29	N.A.	72.10
110-180	1134.82	N.A.	65.20
0-180	1741.00	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	43.89
10-20	110.41
20-30	126.65
30-40	98.34
40-50	57.86
50-60	28.48
60-70	13.12
70-80	5.57
80-90	1.40
90-100	24.20
100-110	96.26
110-120	173.60
120-130	227.22
130-140	240.21
140-150	214.00
150-160	158.54
160-170	91.96
170-180	29.29

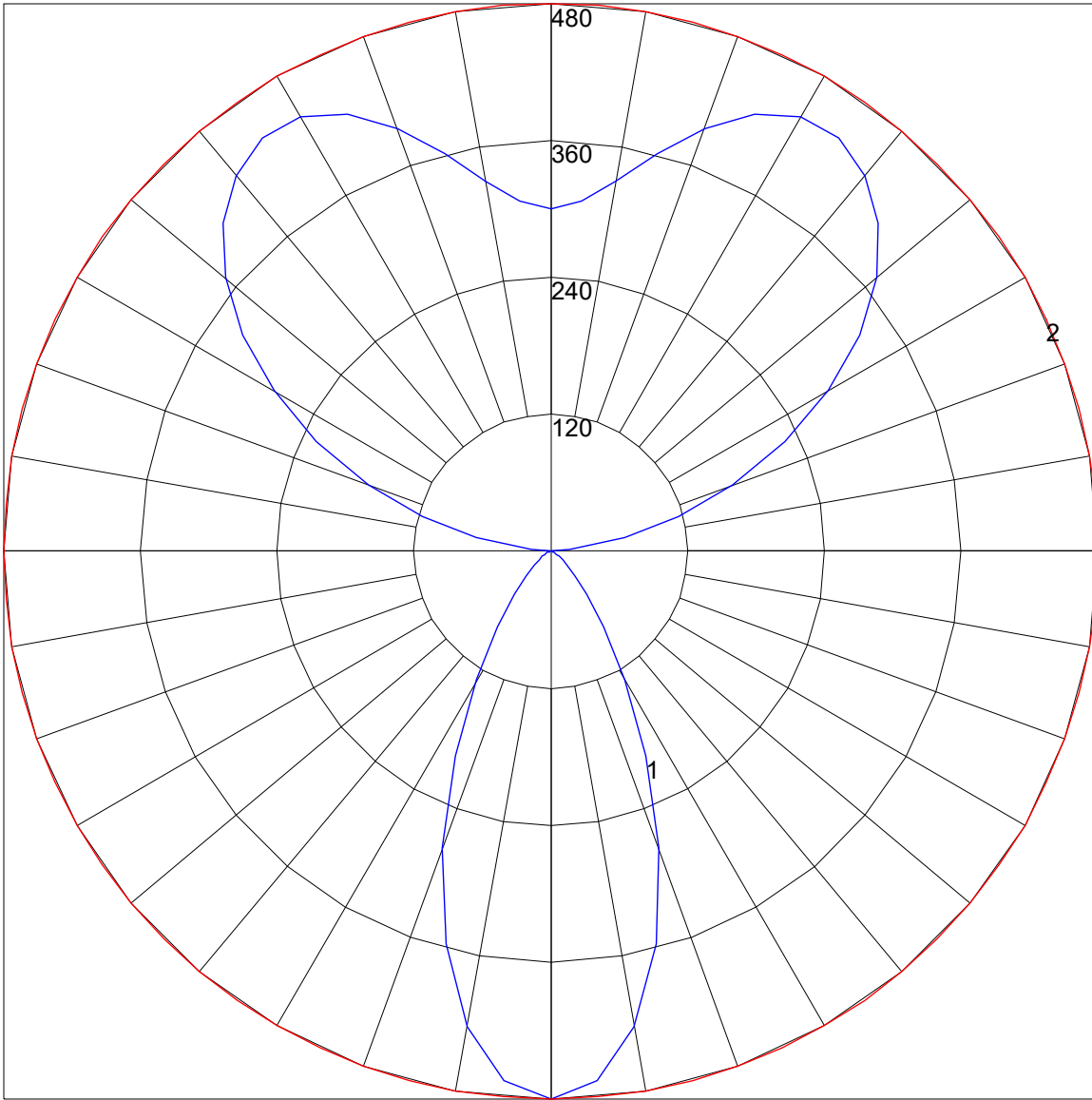
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	71	71	71	53	53	53	36	36	36	28
1	94	90	87	84	84	81	78	76	64	62	60	48	47	46	33	33	32	25
2	86	80	75	70	77	72	67	64	57	54	52	43	41	40	31	30	29	23
3	79	71	65	60	71	64	59	55	51	48	45	39	37	35	28	27	26	21
4	73	64	57	52	66	58	52	47	46	42	39	36	33	31	26	25	23	19
5	68	57	50	45	61	52	46	41	42	38	35	33	30	28	24	23	21	18
6	63	52	45	40	56	47	41	37	38	34	31	30	27	25	22	21	19	16
7	58	47	40	35	52	43	37	33	35	31	28	28	25	23	21	19	18	15
8	54	43	36	31	49	39	33	29	32	28	25	26	23	21	20	18	16	14
9	51	40	33	28	46	36	30	26	30	26	23	24	21	19	18	17	15	13
10	48	37	30	26	43	34	28	24	28	24	21	22	19	17	17	15	14	12

POLAR GRAPH



Maximum Candela = 480.45 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.)