

IES Report

DoubleBox™ | 107 | Wide Batwing, up | 60° Symmetric, down | 80 CRI | LO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-G1S2-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	85	88	90	90
Total Lumens, 4' rail length (1219mm)	2337	2411	2460	2460
Lumens per foot (305mm)	584	603	615	615
Lumens per foot UP (305mm)	371	383	391	391
Lumens per foot DOWN (305mm)	213	220	224	224
Input Power (W), 4' rail length (1219mm)	27.6	27.6	27.6	27.6
Watts per foot (305mm)	6.9	6.9	6.9	6.9
CRI	82	82	82	82

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_35_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-LO-35-G1S2-AL

[LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board, wide batwing lens up /

[MORE] 60° symmetric lens down, low 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	2460
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	27.64
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	1321	2617	14406
55	712	1357	10169
65	421	741	7027
75	228	366	4691
85	0	62	2130

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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	651.920	651.920	651.920	651.920	651.920	651.920	651.920	651.920	651.920	651.920
5	640.900	640.320	640.320	640.320	640.320	640.320	639.740	642.060	643.800	644.960
10	607.840	604.940	605.520	605.520	606.100	606.100	607.260	612.480	617.120	620.600
15	546.360	540.560	541.720	543.460	545.780	546.940	551.000	561.440	571.300	578.260
20	458.200	450.660	453.560	456.460	459.360	462.840	469.800	484.880	501.700	516.780
25	357.280	348.000	352.060	356.120	361.920	367.720	378.740	397.880	419.920	437.900
30	261.580	253.460	257.520	262.160	269.700	276.080	286.520	306.820	331.180	352.060
35	184.440	178.060	181.540	186.180	190.240	196.620	207.060	225.620	248.240	270.860
40	129.920	125.860	128.180	131.660	136.880	141.520	149.060	162.980	181.540	200.100
45	93.380	90.480	92.800	95.120	98.020	101.500	107.300	118.320	131.660	146.160
50	69.600	67.860	69.020	70.760	73.080	75.400	79.460	86.420	96.280	106.720
55	53.940	52.780	53.360	54.520	56.260	57.420	60.320	65.540	71.340	79.460
60	42.340	41.760	42.340	42.920	44.080	45.240	46.980	49.880	53.940	59.160
65	33.060	32.480	33.060	33.640	34.220	34.800	35.960	37.700	40.600	44.080
70	24.940	24.940	24.940	25.520	25.520	26.100	26.680	28.420	29.580	31.900
75	17.980	17.400	17.980	17.980	17.980	18.560	18.560	19.140	20.300	21.460
80	11.020	11.020	11.020	11.020	11.020	11.020	11.020	11.600	12.180	12.760
85	0.000	0.000	0.000	0.580	0.580	0.580	1.160	1.160	2.320	3.480
90	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830
95	13.178	16.211	15.295	15.643	16.170	17.058	17.499	21.013	23.020	24.569
100	50.901	53.424	54.682	57.287	60.639	64.212	68.330	71.810	76.461	76.867
105	122.177	113.802	121.788	124.978	128.621	134.572	139.084	142.889	146.491	145.568
110	227.778	220.284	221.038	225.852	233.636	234.053	242.156	236.188	230.214	215.917
115	364.344	362.848	349.995	343.377	340.269	338.378	329.098	316.077	299.553	279.096
120	463.669	460.769	454.384	442.372	431.340	415.906	399.521	380.927	352.304	322.335
125	528.281	524.906	517.070	507.169	494.792	471.441	450.370	419.839	389.238	354.780
130	555.901	552.920	544.376	531.448	515.701	494.740	468.112	439.222	406.180	372.209
135	555.605	553.094	545.107	532.539	515.156	495.013	469.551	443.155	412.641	382.168
140	537.619	535.056	527.812	516.548	501.578	482.972	460.990	437.059	411.469	385.172
145	509.223	506.937	501.149	492.200	479.515	464.075	446.072	425.627	404.417	382.777
150	476.163	474.098	469.864	462.567	452.835	440.539	426.085	410.408	394.400	376.994
155	441.838	440.336	437.535	431.955	424.914	415.906	405.310	393.930	382.110	370.150
160	409.555	408.761	406.464	403.315	398.303	392.590	386.025	378.131	369.849	362.430
165	381.895	381.309	379.859	378.148	375.828	372.366	368.520	364.315	359.786	354.542
170	361.230	360.911	360.209	359.426	358.457	357.321	356.016	353.951	351.811	349.578
175	348.835	348.684	348.563	348.197	347.925	347.629	347.310	346.968	346.608	346.231
180	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520

**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	651.920	651.920	651.920	651.920	651.920	651.920	651.920	651.920	651.920
5	646.120	646.700	647.280	647.860	648.440	648.440	649.020	649.020	649.020
10	623.500	626.400	629.300	631.620	633.360	634.520	635.680	636.260	636.260
15	584.640	591.020	597.980	603.200	607.260	610.160	611.900	613.640	613.640
20	529.540	541.140	552.160	561.440	567.820	573.040	576.520	578.840	579.420
25	455.880	475.020	491.260	504.600	515.620	523.740	528.960	532.440	533.600
30	375.260	397.300	419.340	437.320	452.400	462.840	469.800	474.440	475.600
35	294.640	320.160	342.780	364.240	381.060	393.820	402.520	407.160	408.900
40	221.560	244.760	267.960	290.000	307.980	321.320	330.600	335.820	337.560
45	163.560	182.120	203.000	222.720	238.960	252.300	261.580	266.800	268.540
50	119.480	133.980	150.800	166.460	180.380	191.980	200.680	205.320	207.060
55	88.160	98.600	110.200	122.380	133.980	143.840	150.800	154.860	157.180
60	65.540	72.500	81.200	89.900	98.020	104.980	110.780	114.260	115.420

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DB_LO_35_G1S2.IES

CANDELA TABULATION - (Cont.)

65	48.140	52.780	58.580	64.380	70.180	75.400	79.460	82.360	82.940
70	34.220	37.120	41.180	44.660	48.720	52.200	55.100	56.840	57.420
75	22.620	24.360	26.680	29.000	31.320	33.060	34.800	35.960	36.540
80	13.340	13.920	15.080	16.240	17.400	17.980	19.140	19.720	19.720
85	4.640	5.220	5.800	6.380	6.380	6.960	6.960	7.540	7.540
90	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830
95	24.934	30.850	30.131	24.180	22.492	22.643	22.197	21.373	21.831
100	76.746	76.427	70.783	63.052	57.785	53.122	48.946	47.351	47.548
105	141.572	130.564	117.810	102.770	91.512	83.155	77.157	74.118	73.654
110	196.069	178.257	158.792	138.811	123.789	113.692	106.395	102.706	102.538
115	252.109	222.273	195.495	172.498	154.999	143.022	134.769	130.367	130.007
120	290.255	256.256	226.803	203.191	184.225	171.280	163.374	158.276	156.211
125	318.211	284.461	254.568	229.831	210.018	196.423	188.251	183.309	180.861
130	338.407	306.826	278.574	254.243	234.564	219.791	209.838	203.528	198.801
135	351.439	322.973	296.769	275.001	256.923	243.200	234.134	228.497	226.171
140	358.672	334.498	311.820	291.682	275.935	262.995	254.353	249.087	246.639
145	361.520	341.434	322.695	305.869	292.105	281.283	273.168	268.923	266.475
150	360.650	344.920	329.684	317.138	305.341	297.424	290.162	287.170	285.145
155	357.906	346.190	335.466	325.020	317.498	310.845	305.880	303.299	301.432
160	354.595	346.312	338.308	332.584	327.062	321.749	319.423	317.451	315.967
165	349.676	345.686	341.690	337.722	333.807	332.027	330.542	329.191	328.123
170	347.275	344.926	342.600	341.487	340.466	339.515	338.639	337.815	337.119
175	345.842	345.442	345.030	344.619	344.207	343.795	343.377	342.989	342.612
180	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	221.61	N.A.	9.00
0-30	422.39	N.A.	17.20
0-40	600.21	N.A.	24.40
0-60	812.85	N.A.	33.00
0-80	890.10	N.A.	36.20
0-90	896.59	N.A.	36.40
10-90	835.86	N.A.	34.00
20-40	378.60	N.A.	15.40
20-50	507.21	N.A.	20.60
40-70	263.88	N.A.	10.70
60-80	77.25	N.A.	3.10
70-80	26.00	N.A.	1.10
80-90	6.49	N.A.	0.30
90-110	156.83	N.A.	6.40
90-120	406.95	N.A.	16.50
90-130	718.91	N.A.	29.20
90-150	1257.68	N.A.	51.10
90-180	1563.56	N.A.	63.60
110-180	1406.73	N.A.	57.20
0-180	2460.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	60.73
10-20	160.88
20-30	200.78
30-40	177.82
40-50	128.61
50-60	84.03
60-70	51.24
70-80	26.00
80-90	6.49
90-100	29.39
100-110	127.43
110-120	250.12
120-130	311.96
130-140	297.13
140-150	241.65
150-160	171.82
160-170	100.92
170-180	33.14

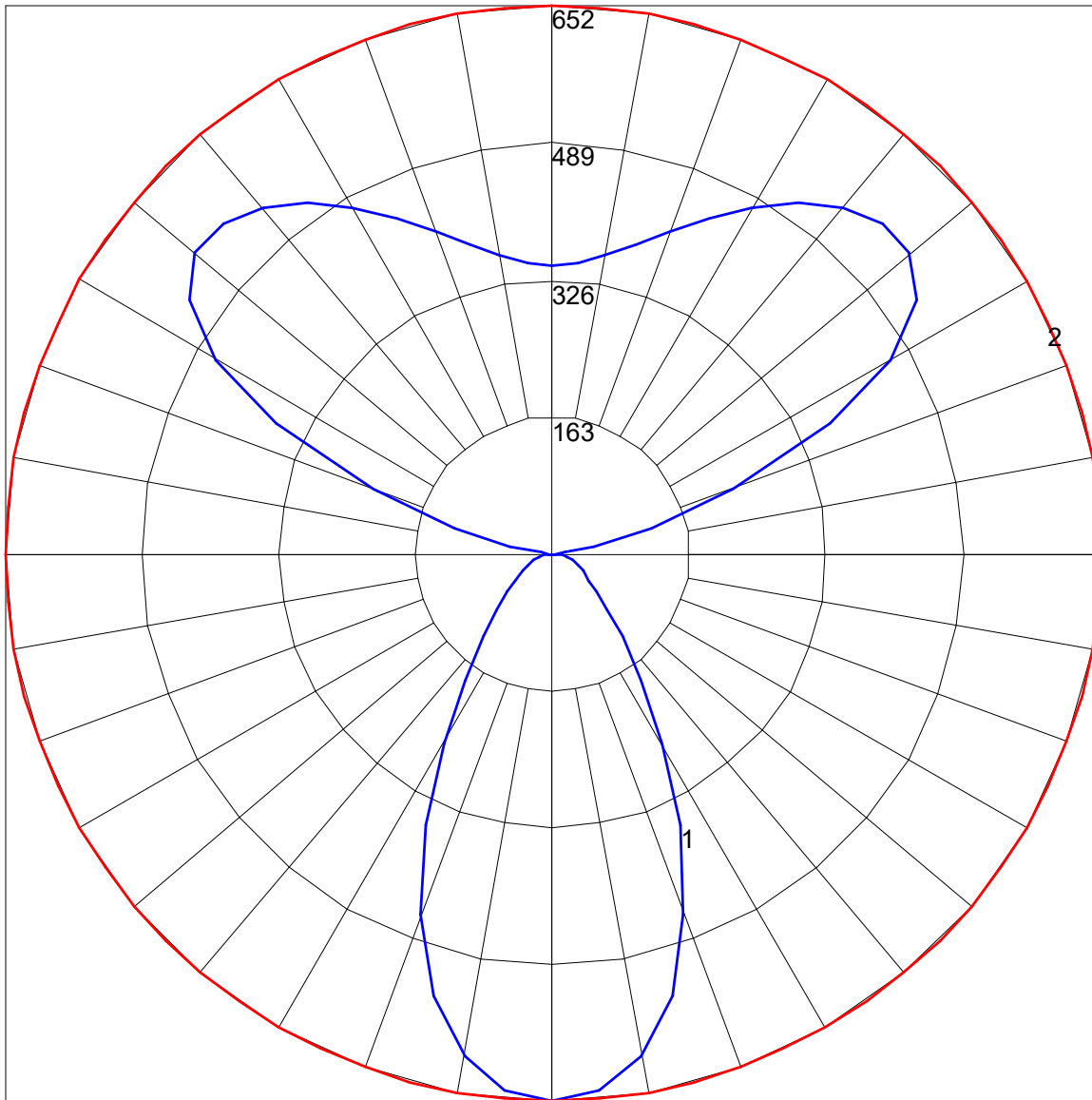
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 PHOTOMETRIC FILENAME : VODE_107_DB_LO_35_G1S2.IES

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 = 651.92 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.)