

IES Report

DoubleBox™ | 107 | Wide Batwing, up | White Baffle, down | 80 CRI | LO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-G1WB-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	87	89	91	91
Total Lumens, 4' rail length (1219mm)	2379	2454	2504	2504
Lumens per foot (305mm)	595	614	626	626
Lumens per foot UP (305mm)	371	383	391	391
Lumens per foot DOWN (305mm)	223	230	235	235
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_G1WB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911507 (SOURCE REPORTS FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 3/18/20

[MANUFAC] Vode Lighting

[LUMCAT] 107-DB-48-Z-LO-35-G1WB-AL

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

[MORE] white baffle 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	2504
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
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	1255	2877	6534
55	865	1436	5066
65	650	770	3981
75	206	297	2606
85	45	52	819

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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	710.500	710.500	710.500	710.500	710.500	710.500	710.500	710.500	710.500	710.500
5	708.760	708.180	707.600	706.440	705.860	704.120	702.380	700.640	699.480	698.320
10	701.800	701.220	697.740	694.260	690.780	688.460	684.400	679.180	673.960	667.000
15	689.620	687.300	682.080	676.860	670.480	660.620	647.860	635.100	621.760	609.000
20	670.480	666.420	660.040	651.340	636.260	617.120	597.980	579.420	562.600	549.260
25	643.220	637.420	629.300	612.480	589.280	564.920	542.300	524.900	506.920	484.300
30	612.480	606.100	592.760	567.240	537.660	509.820	489.520	459.360	428.040	399.040
35	572.460	564.920	545.200	514.460	483.140	458.200	421.660	383.380	350.320	322.480
40	378.160	379.320	382.800	388.020	393.240	372.940	341.620	309.140	267.380	226.200
45	88.740	92.800	102.080	114.260	134.560	168.780	196.040	197.200	176.320	160.660
50	68.440	70.760	74.820	79.460	85.260	92.800	102.080	110.780	115.420	117.740
55	65.540	66.700	69.020	71.340	74.820	78.880	82.940	83.520	83.520	84.100
60	60.900	61.480	60.900	60.900	60.900	62.060	62.640	62.640	62.640	62.640
65	51.040	50.460	48.720	46.980	45.820	45.240	45.240	45.240	45.240	45.820
70	31.900	31.320	31.320	30.160	29.580	29.000	29.000	29.580	29.580	30.160
75	16.240	16.240	16.240	15.660	15.660	15.660	16.240	16.240	16.820	17.400
80	8.120	8.120	7.540	7.540	7.540	7.540	7.540	7.540	7.540	8.120
85	3.480	3.480	3.480	3.480	3.480	3.480	3.480	3.480	2.900	2.900
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	710.500	710.500	710.500	710.500	710.500	710.500	710.500	710.500	710.500
5	697.160	696.580	696.000	695.420	694.260	694.260	693.680	693.100	693.100
10	660.620	654.820	649.020	643.800	639.740	636.260	633.940	632.200	631.620
15	597.980	587.540	578.840	571.300	566.080	561.440	558.540	557.380	556.800
20	537.660	526.060	513.300	499.960	489.520	480.240	473.860	469.800	468.640
25	460.520	439.060	420.500	404.260	392.660	383.380	377.000	373.520	372.360
30	374.680	356.120	336.400	314.940	296.380	281.880	272.020	265.640	263.900
35	288.260	256.940	230.840	211.700	199.520	191.980	187.340	184.440	183.280
40	196.620	179.800	169.940	163.560	158.340	154.280	151.960	150.220	149.640
45	150.800	143.260	137.460	132.240	128.760	125.860	123.540	122.380	121.800
50	116.580	112.520	109.040	105.560	103.240	100.920	99.760	98.600	98.020
55	85.260	85.260	84.100	82.940	81.780	80.040	79.460	78.880	78.300
60	63.220	63.220	63.220	63.220	63.220	62.640	62.060	62.060	61.480

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CANDELA TABULATION - (Cont.)

65	45.820	46.400	46.980	46.980	46.980	47.560	46.980	46.980	46.980
70	30.740	31.320	31.900	32.480	32.480	33.060	33.060	33.060	33.060
75	17.980	18.560	19.140	19.720	20.300	20.300	20.880	20.880	20.300
80	8.120	8.700	9.280	9.280	9.860	9.860	10.440	10.440	9.860
85	2.900	2.900	2.900	2.900	2.900	2.900	2.900	2.900	2.900
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	238.76	N.A.	9.50
0-30	464.20	N.A.	18.50
0-40	676.57	N.A.	27.00
0-60	869.79	N.A.	34.70
0-80	935.93	N.A.	37.40
0-90	940.74	N.A.	37.60
10-90	875.01	N.A.	34.90
20-40	437.82	N.A.	17.50
20-50	559.65	N.A.	22.30
40-70	239.46	N.A.	9.60
60-80	66.14	N.A.	2.60
70-80	19.89	N.A.	0.80
80-90	4.81	N.A.	0.20
90-110	156.83	N.A.	6.30
90-120	406.95	N.A.	16.30
90-130	718.91	N.A.	28.70
90-150	1257.68	N.A.	50.20
90-180	1563.56	N.A.	62.40
110-180	1406.73	N.A.	56.20
0-180	2504.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	65.73
10-20	173.03
20-30	225.44
30-40	212.37
40-50	121.84
50-60	71.38
60-70	46.25
70-80	19.89
80-90	4.81
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

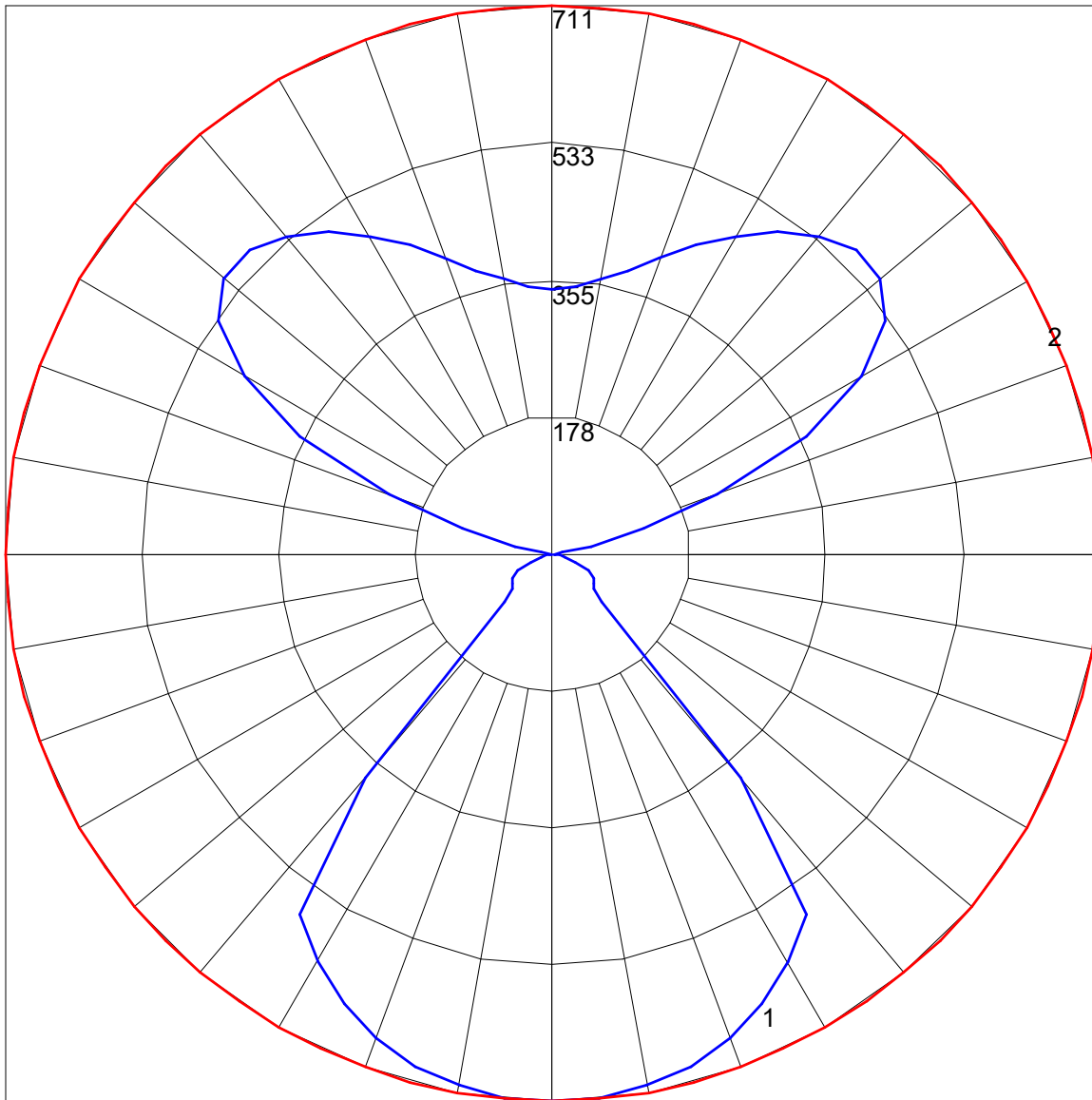
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	95	95	95	76	76	76	60	60	60	45	45	45	38
1	96	92	89	86	87	84	81	78	68	67	65	54	53	52	41	40	40	34
2	88	82	76	72	80	75	70	66	61	58	55	49	47	45	38	36	35	30
3	81	73	66	61	74	67	61	57	55	51	48	44	42	40	34	33	31	27
4	75	65	58	53	68	60	54	49	50	45	42	40	37	35	32	30	28	24
5	69	59	52	46	63	54	48	43	45	41	37	37	34	31	29	27	25	22
6	64	53	46	41	58	49	43	38	41	36	33	34	30	28	27	25	23	20
7	60	48	41	36	54	45	38	34	38	33	30	31	28	25	25	23	21	18
8	56	44	37	32	51	41	35	30	35	30	27	29	25	23	23	21	19	17
9	52	41	34	29	48	38	32	28	32	27	24	27	23	21	22	19	18	16
10	49	38	31	26	45	35	29	25	30	25	22	25	22	19	20	18	16	14

POLAR GRAPH



Maximum Candela = 710.5 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.)