

IES Report

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

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-G1S2-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	85	88	89	89
Total Lumens, 4' rail length (1219mm)	4038	4165	4250	4250
Lumens per foot (305mm)	1009	1041	1063	1063
Lumens per foot UP (305mm)	743	766	782	782
Lumens per foot DOWN (305mm)	267	275	281	281
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	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_SO_35_G1S2_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911513 (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-SO-35-G1S2-BL

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

[MORE] 60° 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	4250
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
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	1221	2563	17347
55	433	971	9820
65	176	402	5570
75	69	158	3184
85	1	19	1265

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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	1047.410	1047.410	1047.410	1047.410	1047.410	1047.410	1047.410	1047.410	1047.410	1047.410
1.0	1000.941	1008.144	1007.414	1014.652	1036.773	1049.661	1058.314	1063.766	1067.942	1075.424
3.0	1005.221	1011.010	1010.627	1020.684	1040.137	1051.018	1057.827	1065.077	1074.462	1082.721
5.0	1002.310	1005.813	1006.590	1014.316	1033.038	1043.536	1049.707	1059.672	1071.933	1079.751
7.0	974.400	976.244	978.680	985.142	1007.994	1018.109	1022.876	1031.576	1042.910	1059.092
9.0	940.563	941.676	944.402	951.409	975.038	983.982	992.392	1004.490	1025.405	1037.852
11.0	897.295	896.274	899.626	904.487	926.956	938.185	943.776	958.067	985.977	1004.305
13.0	843.424	841.093	844.155	849.016	869.582	881.925	890.532	910.368	939.693	962.348
15.0	788.881	786.248	790.575	794.368	812.800	826.604	838.610	869.536	898.072	923.163
17.0	728.782	724.165	729.605	734.129	750.218	762.132	773.952	800.980	832.973	863.597
19.5	648.568	643.116	649.484	651.433	666.791	677.881	697.322	732.378	767.096	798.985
22.5	548.796	542.138	547.346	545.594	557.983	572.715	590.753	622.363	662.174	698.053
25.5	457.597	450.010	456.762	461.193	468.536	482.490	503.289	535.386	572.669	611.123
29.0	354.716	348.012	353.406	349.032	355.644	368.428	388.948	416.753	454.186	492.698
33.0	255.629	249.551	255.490	260.884	263.216	268.610	285.093	309.697	341.887	375.620
37.5	170.160	166.077	170.752	167.632	171.228	179.545	193.940	214.507	239.494	268.610
42.5	106.674	103.600	106.476	109.434	110.270	112.798	122.078	135.256	152.714	174.000
47.5	66.027	64.276	66.027	67.338	68.022	70.354	76.618	85.620	98.066	112.253
55.0	32.770	31.946	32.816	32.863	33.547	35.102	38.257	42.781	49.439	56.840
65.0	13.804	13.514	13.908	14.001	14.245	14.929	16.240	18.235	20.810	23.919
75.0	5.440	5.394	5.545	5.498	5.638	6.032	6.519	7.099	8.120	9.234
85.0	0.093	0.093	0.093	0.093	0.093	0.197	0.290	0.441	0.731	1.067
90.0	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661
95.0	26.355	32.422	30.589	31.285	32.341	34.116	34.997	42.027	46.040	49.138
100.0	101.802	106.848	109.365	114.573	121.278	128.424	136.660	143.620	152.923	153.735
105.0	244.354	227.604	243.577	249.957	257.242	269.143	278.168	285.778	292.981	291.137
110.0	455.555	440.568	442.076	451.704	467.271	468.106	484.312	472.375	460.427	431.833
115.0	728.689	725.696	699.990	686.755	680.537	676.756	658.196	632.154	599.105	558.192
120.0	927.339	921.539	908.767	884.744	862.680	831.813	799.043	761.853	704.607	644.670
125.0	1056.563	1049.812	1034.140	1014.339	989.584	942.883	900.740	839.678	778.476	709.560
130.0	1111.802	1105.840	1088.753	1062.896	1031.402	989.480	936.224	878.445	812.360	744.418
135.0	1111.210	1106.188	1090.214	1065.077	1030.312	990.025	939.101	886.310	825.282	764.336
140.0	1075.239	1070.112	1055.623	1033.096	1003.156	965.944	921.980	874.118	822.939	770.344
145.0	1018.445	1013.875	1002.298	984.399	959.030	928.151	892.144	851.254	808.833	765.554
150.0	952.325	948.196	939.728	925.135	905.670	881.078	852.171	820.816	788.800	753.988
155.0	883.676	880.672	875.069	863.910	849.828	831.813	810.620	787.860	764.220	740.300
160.0	819.111	817.522	812.928	806.629	796.607	785.181	772.050	756.262	739.697	724.861
165.0	763.790	762.619	759.719	756.297	751.657	744.732	737.041	728.631	719.571	709.085
170.0	722.460	721.822	720.418	718.852	716.915	714.641	712.031	707.902	703.621	699.155
175.0	697.670	697.369	697.125	696.394	695.849	695.258	694.620	693.935	693.216	692.462
180.0	689.040	689.040	689.040	689.040	689.040	689.040	689.040	689.040	689.040	689.040

Vert. Horizontal Angles
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	1047.410	1047.410	1047.410	1047.410	1047.410	1047.410	1047.410	1047.410	1047.410
1.0	1082.036	1085.980	1090.748	1095.991	1099.007	1101.490	1102.847	1103.578	1104.993
3.0	1087.291	1093.567	1097.070	1099.831	1100.759	1102.998	1104.216	1104.703	1105.283
5.0	1085.934	1089.089	1091.862	1091.954	1094.298	1096.722	1098.810	1100.179	1100.132
7.0	1069.358	1073.487	1076.016	1078.440	1081.944	1084.867	1088.022	1089.089	1089.530
9.0	1048.060	1054.626	1059.289	1062.885	1067.119	1071.875	1075.042	1077.524	1078.440
11.0	1018.503	1027.203	1032.748	1039.453	1046.842	1052.874	1057.537	1060.217	1061.423
13.0	978.437	994.677	1003.620	1013.538	1022.679	1030.068	1035.752	1039.836	1041.587
15.0	941.004	957.963	970.897	984.028	995.651	1005.418	1013.295	1018.352	1019.222

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CANDELA TABULATION - (Cont.)

17.0	888.398	907.108	925.100	942.024	956.756	968.519	977.903	984.364	986.557
19.5	825.340	847.310	869.780	891.216	910.124	926.411	938.231	946.108	949.309
22.5	737.783	766.215	793.742	820.433	844.399	863.701	878.526	888.398	892.527
25.5	644.484	678.124	710.790	742.586	770.542	793.347	810.457	821.883	826.117
29.0	532.173	569.514	605.590	643.556	675.746	702.670	723.098	736.078	740.648
33.0	412.960	452.052	490.170	528.090	561.776	590.127	611.668	625.855	631.063
37.5	300.220	333.523	369.008	404.794	435.418	466.494	488.708	503.243	508.637
42.5	199.717	227.337	255.780	284.896	313.293	339.300	358.800	371.687	376.501
47.5	130.245	149.501	171.332	194.567	217.036	238.426	254.806	265.454	270.222
55.0	66.514	77.210	89.552	103.658	117.415	130.442	141.578	148.967	151.786
65.0	27.759	32.190	37.387	43.268	49.439	55.622	60.819	64.322	65.737
75.0	10.695	12.354	14.198	16.484	18.722	21.008	22.898	24.314	24.801
85.0	1.752	2.332	2.772	3.213	3.503	3.886	4.234	4.373	4.478
90.0	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661
95.0	49.868	61.700	60.262	48.360	44.985	45.286	44.393	42.746	43.662
100.0	153.491	152.853	141.566	126.104	115.571	106.244	97.892	94.702	95.097
105.0	283.144	261.128	235.619	205.540	183.025	166.309	154.315	148.236	147.308
110.0	392.138	356.514	317.585	277.623	247.579	227.383	212.790	205.413	205.076
115.0	504.217	444.547	390.990	344.996	309.998	286.044	269.538	260.733	260.014
120.0	580.510	512.511	453.606	406.383	368.451	342.560	326.749	316.552	312.423
125.0	636.422	568.922	509.136	459.662	420.036	392.846	376.501	366.618	361.723
130.0	676.814	613.652	557.148	508.486	469.127	439.582	419.676	407.056	397.602
135.0	702.879	645.946	593.537	550.002	513.845	486.400	468.269	456.994	452.342
140.0	717.344	668.995	623.639	583.364	551.870	525.990	508.706	498.174	493.278
145.0	723.040	682.869	645.389	611.738	584.211	562.565	546.337	537.846	532.950
150.0	721.300	689.840	659.367	634.276	610.682	594.848	580.325	574.339	570.291
155.0	715.813	692.381	670.932	650.041	634.996	621.690	611.761	606.599	602.864
160.0	709.189	692.624	676.616	665.167	654.124	643.498	638.847	634.903	631.933
165.0	699.352	691.372	683.379	675.445	667.615	664.054	661.084	658.381	656.247
170.0	694.550	689.852	685.200	682.973	680.932	679.029	677.278	675.630	674.238
175.0	691.685	690.884	690.061	689.237	688.414	687.590	686.755	685.978	685.224
180.0	689.040	689.040	689.040	689.040	689.040	689.040	689.040	689.040	689.040

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	336.64	N.A.	7.90
0-30	612.84	N.A.	14.40
0-40	817.68	N.A.	19.20
0-60	1041.99	N.A.	24.50
0-80	1113.73	N.A.	26.20
0-90	1123.14	N.A.	26.40
10-90	1041.93	N.A.	24.50
20-40	481.05	N.A.	11.30
20-50	637.35	N.A.	15.00
40-70	273.88	N.A.	6.40
60-80	71.74	N.A.	1.70
70-80	22.16	N.A.	0.50
80-90	9.41	N.A.	0.20
90-110	313.65	N.A.	7.40
90-120	813.90	N.A.	19.10
90-130	1437.81	N.A.	33.80
90-150	2515.37	N.A.	59.20
90-180	3127.12	N.A.	73.60
110-180	2813.47	N.A.	66.20
0-180	4250.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	81.21
10-20	255.43
20-30	276.20
30-40	204.84
40-50	156.31
50-60	68.00
60-70	49.57
70-80	22.16
80-90	9.41
90-100	58.78
100-110	254.87
110-120	500.25
120-130	623.92
130-140	594.25
140-150	483.30
150-160	343.63
160-170	201.85
170-180	66.27

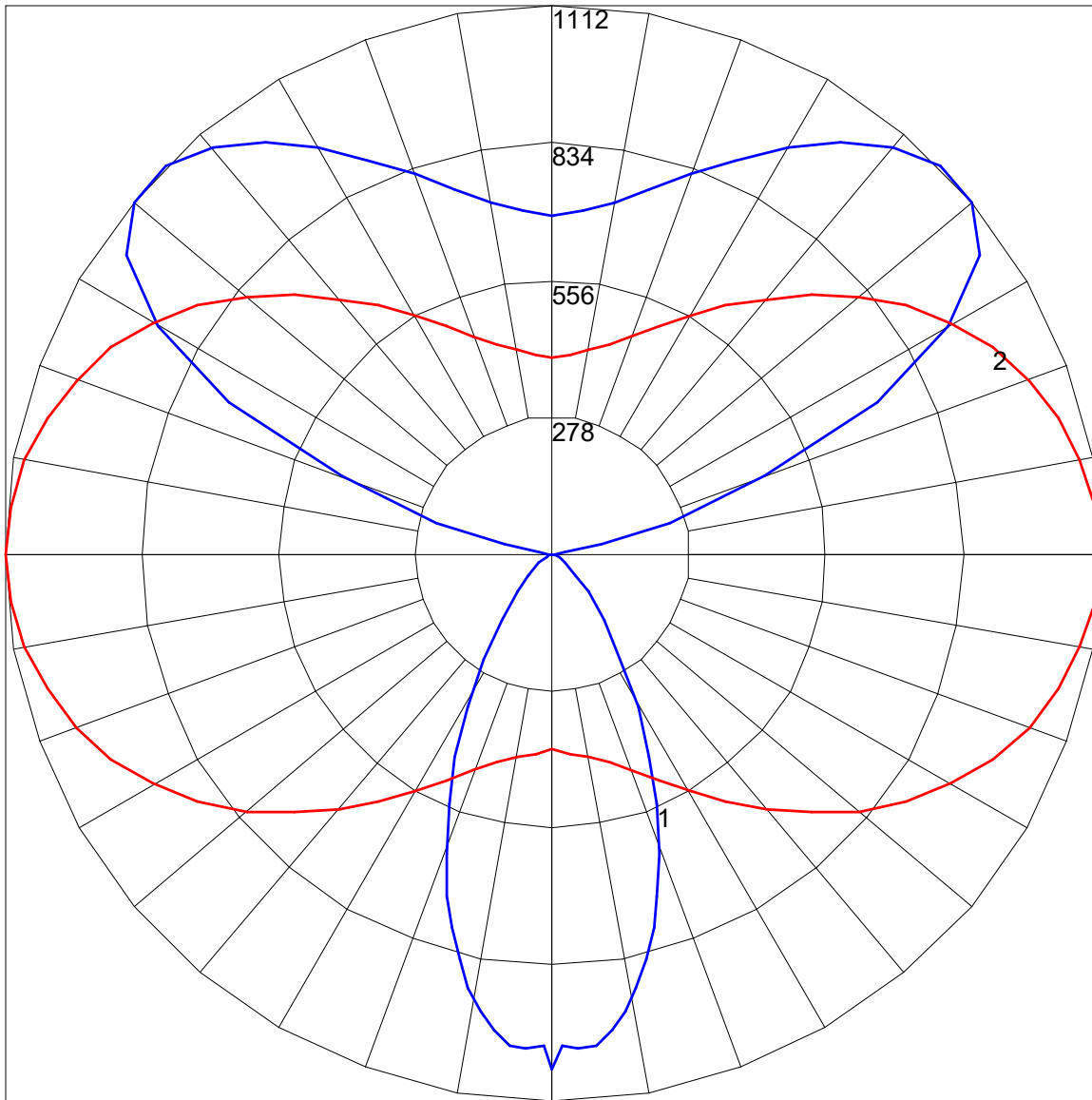
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	70	70	70	52	52	52	34	34	34	26
1	93	89	86	83	83	80	77	75	63	61	59	46	45	44	32	31	31	24
2	86	79	74	69	76	71	66	63	56	53	50	42	40	38	29	28	27	21
3	79	70	64	59	70	63	58	53	50	46	43	38	36	34	26	25	24	19
4	72	63	56	50	65	57	51	46	45	41	38	34	32	30	24	23	22	17
5	67	56	49	44	60	51	45	40	41	36	33	31	29	26	22	21	20	16
6	62	51	44	38	55	46	40	35	37	33	29	29	26	24	21	19	18	15
7	57	46	39	34	51	42	36	31	34	30	26	26	23	21	19	18	16	13
8	53	42	35	30	48	38	32	28	31	27	24	24	21	19	18	16	15	12
9	50	39	32	27	45	35	29	25	29	24	21	23	20	18	17	15	14	12
10	47	36	29	25	42	32	27	23	27	22	19	21	18	16	16	14	13	11

POLAR GRAPH



Maximum Candela = 1111.802 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.)