

IES Report

DoubleBox™ | 107 | Wide Batwing, up | 40° Symmetric, down | 80 CRI | SO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-G1S1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	89	92	94	94
Total Lumens, 4' rail length (1219mm)	4234	4368	4457	4457
Lumens per foot (305mm)	1058	1092	1114	1114
Lumens per foot UP (305mm)	743	766	782	782
Lumens per foot DOWN (305mm)	316	326	333	333
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_G1S1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L022010902 / L121911509 (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-SO-35-G1S1-AL
[LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board, wide batwing lens up /
[MORE] 40° symmetric lens down, standard 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	4457
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
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	1771	3732	21498
55	1019	1987	14821
65	619	1101	10290
75	333	544	6865
85	9	67	2995

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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	1071.770	1071.770	1071.770	1071.770	1071.770	1071.770	1071.770	1071.770	1071.770	1071.770
1.0	1042.666	1048.257	1050.299	1059.289	1065.414	1068.963	1065.611	1068.232	1070.320	1072.559
3.0	1029.732	1031.774	1032.156	1050.102	1060.553	1064.683	1061.957	1064.149	1066.922	1069.300
5.0	1003.864	1000.952	1016.021	1027.980	1043.536	1047.526	1046.796	1050.682	1054.916	1057.688
7.0	968.182	960.735	976.836	994.874	1010.963	1017.378	1022.238	1027.203	1032.794	1037.794
9.0	925.390	915.089	933.568	959.714	978.820	985.733	992.055	999.004	1007.170	1015.197
11.0	873.468	858.980	880.370	908.326	926.852	939.936	948.636	958.114	968.762	979.458
13.0	811.722	792.814	805.168	837.450	868.272	886.982	897.782	911.296	924.033	938.718
15.0	769.034	749.789	786.979	820.967	831.070	844.109	858.307	874.292	891.553	909.301
17.0	694.074	694.457	711.625	753.582	767.236	782.455	798.358	816.779	837.787	859.328
19.5	610.160	602.133	627.270	663.590	684.249	700.779	719.884	741.762	765.832	791.549
22.5	514.286	513.694	532.510	566.788	583.758	602.330	623.964	647.883	675.886	706.173
25.5	424.340	428.179	440.672	469.742	490.262	509.170	531.396	557.600	587.157	619.834
29.0	341.005	331.621	350.540	377.081	392.788	410.675	432.262	458.130	488.314	521.617
33.0	256.894	251.604	263.459	287.819	301.913	317.770	336.771	360.157	388.461	419.618
37.5	191.064	190.588	198.940	213.869	224.367	236.872	252.381	271.823	295.742	322.770
42.5	141.474	138.075	145.905	156.310	164.372	173.513	184.892	199.624	217.570	238.856
47.5	109.005	106.720	112.021	119.167	124.456	130.686	138.759	149.257	162.435	177.990
55.0	77.210	75.945	78.567	82.024	84.645	88.392	92.962	98.983	106.674	116.348
65.0	48.616	48.720	49.300	50.518	51.875	53.337	55.378	57.954	61.306	65.494
75.0	26.251	26.007	26.402	26.784	27.179	27.712	28.397	29.220	30.438	31.888
85.0	0.684	0.731	0.731	0.870	1.021	1.264	1.659	2.088	2.680	3.747
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

	<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	1071.770	1071.770	1071.770	1071.770	1071.770	1071.770	1071.770	1071.770	1071.770
1.0	1073.870	1075.042	1078.928	1079.751	1081.897	1082.280	1082.814	1082.141	1082.431
3.0	1070.912	1072.559	1075.332	1075.912	1082.582	1081.074	1081.503	1081.700	1081.944
5.0	1060.646	1064.103	1066.968	1069.590	1073.441	1074.995	1076.352	1079.415	1076.990
7.0	1043.095	1048.199	1053.257	1057.154	1063.998	1066.875	1069.253	1070.425	1072.026
9.0	1023.364	1030.648	1036.970	1043.687	1049.614	1054.231	1058.848	1062.015	1066.678
11.0	990.443	1001.092	1011.253	1021.218	1028.178	1035.172	1042.225	1047.573	1052.190
13.0	953.102	967.162	980.571	994.526	1004.595	1013.492	1023.944	1028.363	1034.302
15.0	928.406	945.180	962.290	976.882	990.153	1000.848	1008.040	1012.030	1014.072

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CANDELA TABULATION - (Cont.)

17.0	881.588	902.492	922.861	942.802	958.995	970.120	980.676	987.578	989.956
19.5	818.438	843.622	868.898	894.325	914.846	931.515	942.697	950.678	954.077
22.5	737.876	768.210	799.333	829.806	854.560	875.951	891.216	900.114	903.814
25.5	654.890	688.773	724.165	758.489	788.533	813.763	830.247	842.160	846.336
29.0	558.378	595.231	634.079	670.932	704.085	733.352	751.877	766.273	771.180
33.0	456.089	492.107	531.292	570.627	606.019	631.202	656.340	672.092	678.032
37.5	354.763	387.626	423.516	460.798	495.366	525.654	549.237	564.259	568.342
42.5	263.262	291.369	321.366	354.032	385.050	412.380	433.620	446.310	451.658
47.5	196.121	218.347	242.069	267.937	293.120	316.460	334.057	345.135	349.856
55.0	126.939	140.116	155.382	171.773	188.303	204.102	217.419	225.690	229.088
65.0	70.690	76.815	83.961	92.081	100.444	108.518	115.327	119.944	121.452
75.0	33.791	36.122	38.802	41.957	45.112	48.372	51.098	52.803	53.476
85.0	5.301	7.053	8.503	9.141	9.582	10.011	10.405	10.556	10.602
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	334.16	N.A.	7.50
0-30	615.68	N.A.	13.80
0-40	840.59	N.A.	18.90
0-60	1149.4	N.A.	25.80
0-80	1305.16	N.A.	29.30
0-90	1330.06	N.A.	29.80
10-90	1249.63	N.A.	28.00
20-40	506.43	N.A.	11.40
20-50	707.14	N.A.	15.90
40-70	407.73	N.A.	9.10
60-80	155.76	N.A.	3.50
70-80	56.85	N.A.	1.30
80-90	24.89	N.A.	0.60
90-110	313.65	N.A.	7.00
90-120	813.90	N.A.	18.30
90-130	1437.81	N.A.	32.30
90-150	2515.37	N.A.	56.40
90-180	3127.12	N.A.	70.20
110-180	2813.47	N.A.	63.10
0-180	4457.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	80.43
10-20	253.73
20-30	281.53
30-40	224.90
40-50	200.71
50-60	108.10
60-70	98.91
70-80	56.85
80-90	24.89
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

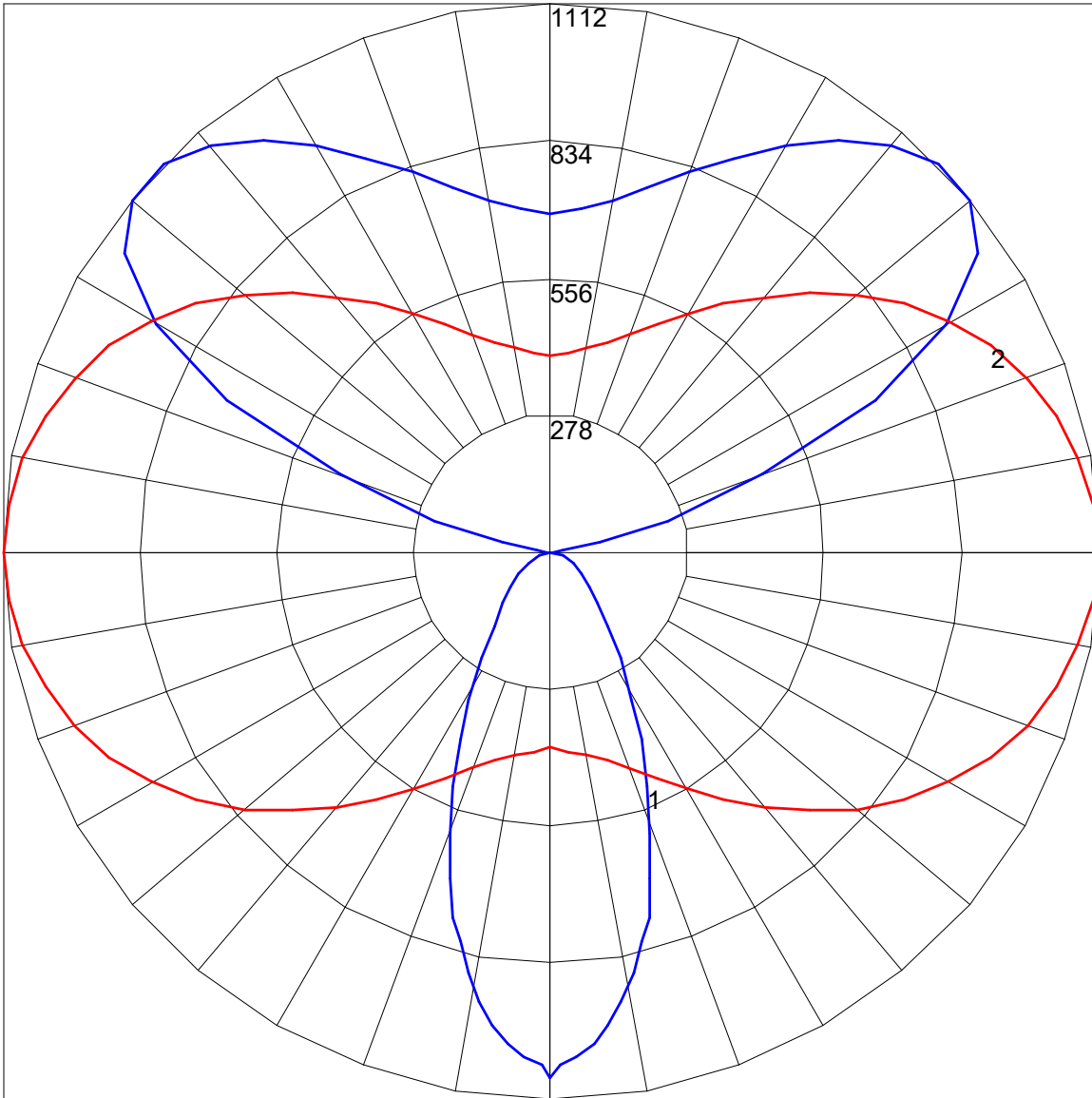
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	38	38	38	30
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	34	33	33	26
2	86	79	73	69	77	71	66	62	57	53	51	43	41	39	31	29	28	23
3	79	70	63	58	70	63	58	53	50	47	43	39	36	34	28	26	25	20
4	72	62	55	50	65	56	50	45	45	41	37	35	32	30	25	24	22	18
5	67	56	48	43	60	51	44	40	41	36	33	32	29	26	23	21	20	16
6	62	50	43	38	55	46	39	35	37	32	29	29	26	23	21	19	18	15
7	57	46	38	33	51	42	35	31	34	29	26	27	23	21	20	18	16	13
8	53	42	34	30	48	38	32	27	31	26	23	25	21	19	18	16	15	12
9	49	38	31	26	45	35	29	25	29	24	21	23	20	17	17	15	14	11
10	46	35	28	24	42	32	26	22	26	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.)