

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-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	98	101	103	103
Total Lumens, 4' rail length (1219mm)	4675	4822	4921	4921
Lumens per foot (305mm)	1169	1206	1230	1230
Lumens per foot UP (305mm)	743	766	782	782
Lumens per foot DOWN (305mm)	426	439	448	448
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.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-SO-35-G1S2-AL
[LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board, wide batwing lens up /
[MORE] 60° 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	4920
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
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	2642	5234	28811
55	1424	2714	20338
65	842	1482	14055
75	456	732	9382
85	0	124	4260

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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	1303.840	1303.840	1303.840	1303.840	1303.840	1303.840	1303.840	1303.840	1303.840	1303.840
5	1281.800	1280.640	1280.640	1280.640	1280.640	1280.640	1279.480	1284.120	1287.600	1289.920
10	1215.680	1209.880	1211.040	1211.040	1212.200	1212.200	1214.520	1224.960	1234.240	1241.200
15	1092.720	1081.120	1083.440	1086.920	1091.560	1093.880	1102.000	1122.880	1142.600	1156.520
20	916.400	901.320	907.120	912.920	918.720	925.680	939.600	969.760	1003.400	1033.560
25	714.560	696.000	704.120	712.240	723.840	735.440	757.480	795.760	839.840	875.800
30	523.160	506.920	515.040	524.320	539.400	552.160	573.040	613.640	662.360	704.120
35	368.880	356.120	363.080	372.360	380.480	393.240	414.120	451.240	496.480	541.720
40	259.840	251.720	256.360	263.320	273.760	283.040	298.120	325.960	363.080	400.200
45	186.760	180.960	185.600	190.240	196.040	203.000	214.600	236.640	263.320	292.320
50	139.200	135.720	138.040	141.520	146.160	150.800	158.920	172.840	192.560	213.440
55	107.880	105.560	106.720	109.040	112.520	114.840	120.640	131.080	142.680	158.920
60	84.680	83.520	84.680	85.840	88.160	90.480	93.960	99.760	107.880	118.320
65	66.120	64.960	66.120	67.280	68.440	69.600	71.920	75.400	81.200	88.160
70	49.880	49.880	49.880	51.040	51.040	52.200	53.360	56.840	59.160	63.800
75	35.960	34.800	35.960	35.960	35.960	37.120	37.120	38.280	40.600	42.920
80	22.040	22.040	22.040	22.040	22.040	22.040	22.040	23.200	24.360	25.520
85	0.000	0.000	0.000	1.160	1.160	1.160	2.320	2.320	4.640	6.960
90	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661
95	26.355	32.422	30.589	31.285	32.341	34.116	34.997	42.027	46.040	49.138
100	101.802	106.848	109.365	114.573	121.278	128.424	136.660	143.620	152.923	153.735
105	244.354	227.604	243.577	249.957	257.242	269.143	278.168	285.778	292.981	291.137
110	455.555	440.568	442.076	451.704	467.271	468.106	484.312	472.375	460.427	431.833
115	728.689	725.696	699.990	686.755	680.537	676.756	658.196	632.154	599.105	558.192
120	927.339	921.539	908.767	884.744	862.680	831.813	799.043	761.853	704.607	644.670
125	1056.563	1049.812	1034.140	1014.339	989.584	942.883	900.740	839.678	778.476	709.560
130	1111.802	1105.840	1088.753	1062.896	1031.402	989.480	936.224	878.445	812.360	744.418
135	1111.210	1106.188	1090.214	1065.077	1030.312	990.025	939.101	886.310	825.282	764.336
140	1075.239	1070.112	1055.623	1033.096	1003.156	965.944	921.980	874.118	822.939	770.344
145	1018.445	1013.875	1002.298	984.399	959.030	928.151	892.144	851.254	808.833	765.554
150	952.325	948.196	939.728	925.135	905.670	881.078	852.171	820.816	788.800	753.988
155	883.676	880.672	875.069	863.910	849.828	831.813	810.620	787.860	764.220	740.300
160	819.111	817.522	812.928	806.629	796.607	785.181	772.050	756.262	739.697	724.861
165	763.790	762.619	759.719	756.297	751.657	744.732	737.041	728.631	719.571	709.085
170	722.460	721.822	720.418	718.852	716.915	714.641	712.031	707.902	703.621	699.155
175	697.670	697.369	697.125	696.394	695.849	695.258	694.620	693.935	693.216	692.462
180	689.040	689.040	689.040	689.040	689.040	689.040	689.040	689.040	689.040	689.040

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	1303.840	1303.840	1303.840	1303.840	1303.840	1303.840	1303.840	1303.840	1303.840
5	1292.240	1293.400	1294.560	1295.720	1296.880	1296.880	1298.040	1298.040	1298.040
10	1247.000	1252.800	1258.600	1263.240	1266.720	1269.040	1271.360	1272.520	1272.520
15	1169.280	1182.040	1195.960	1206.400	1214.520	1220.320	1223.800	1227.280	1227.280
20	1059.080	1082.280	1104.320	1122.880	1135.640	1146.080	1153.040	1157.680	1158.840
25	911.760	950.040	982.520	1009.200	1031.240	1047.480	1057.920	1064.880	1067.200
30	750.520	794.600	838.680	874.640	904.800	925.680	939.600	948.880	951.200
35	589.280	640.320	685.560	728.480	762.120	787.640	805.040	814.320	817.800
40	443.120	489.520	535.920	580.000	615.960	642.640	661.200	671.640	675.120
45	327.120	364.240	406.000	445.440	477.920	504.600	523.160	533.600	537.080
50	238.960	267.960	301.600	332.920	360.760	383.960	401.360	410.640	414.120
55	176.320	197.200	220.400	244.760	267.960	287.680	301.600	309.720	314.360
60	131.080	145.000	162.400	179.800	196.040	209.960	221.560	228.520	230.840

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CANDELA TABULATION - (Cont.)

65	96.280	105.560	117.160	128.760	140.360	150.800	158.920	164.720	165.880
70	68.440	74.240	82.360	89.320	97.440	104.400	110.200	113.680	114.840
75	45.240	48.720	53.360	58.000	62.640	66.120	69.600	71.920	73.080
80	26.680	27.840	30.160	32.480	34.800	35.960	38.280	39.440	39.440
85	9.280	10.440	11.600	12.760	12.760	13.920	13.920	15.080	15.080
90	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661
95	49.868	61.700	60.262	48.360	44.985	45.286	44.393	42.746	43.662
100	153.491	152.853	141.566	126.104	115.571	106.244	97.892	94.702	95.097
105	283.144	261.128	235.619	205.540	183.025	166.309	154.315	148.236	147.308
110	392.138	356.514	317.585	277.623	247.579	227.383	212.790	205.413	205.076
115	504.217	444.547	390.990	344.996	309.998	286.044	269.538	260.733	260.014
120	580.510	512.511	453.606	406.383	368.451	342.560	326.749	316.552	312.423
125	636.422	568.922	509.136	459.662	420.036	392.846	376.501	366.618	361.723
130	676.814	613.652	557.148	508.486	469.127	439.582	419.676	407.056	397.602
135	702.879	645.946	593.537	550.002	513.845	486.400	468.269	456.994	452.342
140	717.344	668.995	623.639	583.364	551.870	525.990	508.706	498.174	493.278
145	723.040	682.869	645.389	611.738	584.211	562.565	546.337	537.846	532.950
150	721.300	689.840	659.367	634.276	610.682	594.848	580.325	574.339	570.291
155	715.813	692.381	670.932	650.041	634.996	621.690	611.761	606.599	602.864
160	709.189	692.624	676.616	665.167	654.124	643.498	638.847	634.903	631.933
165	699.352	691.372	683.379	675.445	667.615	664.054	661.084	658.381	656.247
170	694.550	689.852	685.200	682.973	680.932	679.029	677.278	675.630	674.238
175	691.685	690.884	690.061	689.237	688.414	687.590	686.755	685.978	685.224
180	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	443.22	N.A.	9.00
0-30	844.79	N.A.	17.20
0-40	1200.43	N.A.	24.40
0-60	1625.71	N.A.	33.00
0-80	1780.2	N.A.	36.20
0-90	1793.17	N.A.	36.40
10-90	1671.72	N.A.	34.00
20-40	757.21	N.A.	15.40
20-50	1014.42	N.A.	20.60
40-70	527.76	N.A.	10.70
60-80	154.49	N.A.	3.10
70-80	52.01	N.A.	1.10
80-90	12.97	N.A.	0.30
90-110	313.65	N.A.	6.40
90-120	813.90	N.A.	16.50
90-130	1437.81	N.A.	29.20
90-150	2515.37	N.A.	51.10
90-180	3127.12	N.A.	63.60
110-180	2813.47	N.A.	57.20
0-180	4920.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	121.45
10-20	321.77
20-30	401.56
30-40	355.64
40-50	257.21
50-60	168.06
60-70	102.48
70-80	52.01
80-90	12.97
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

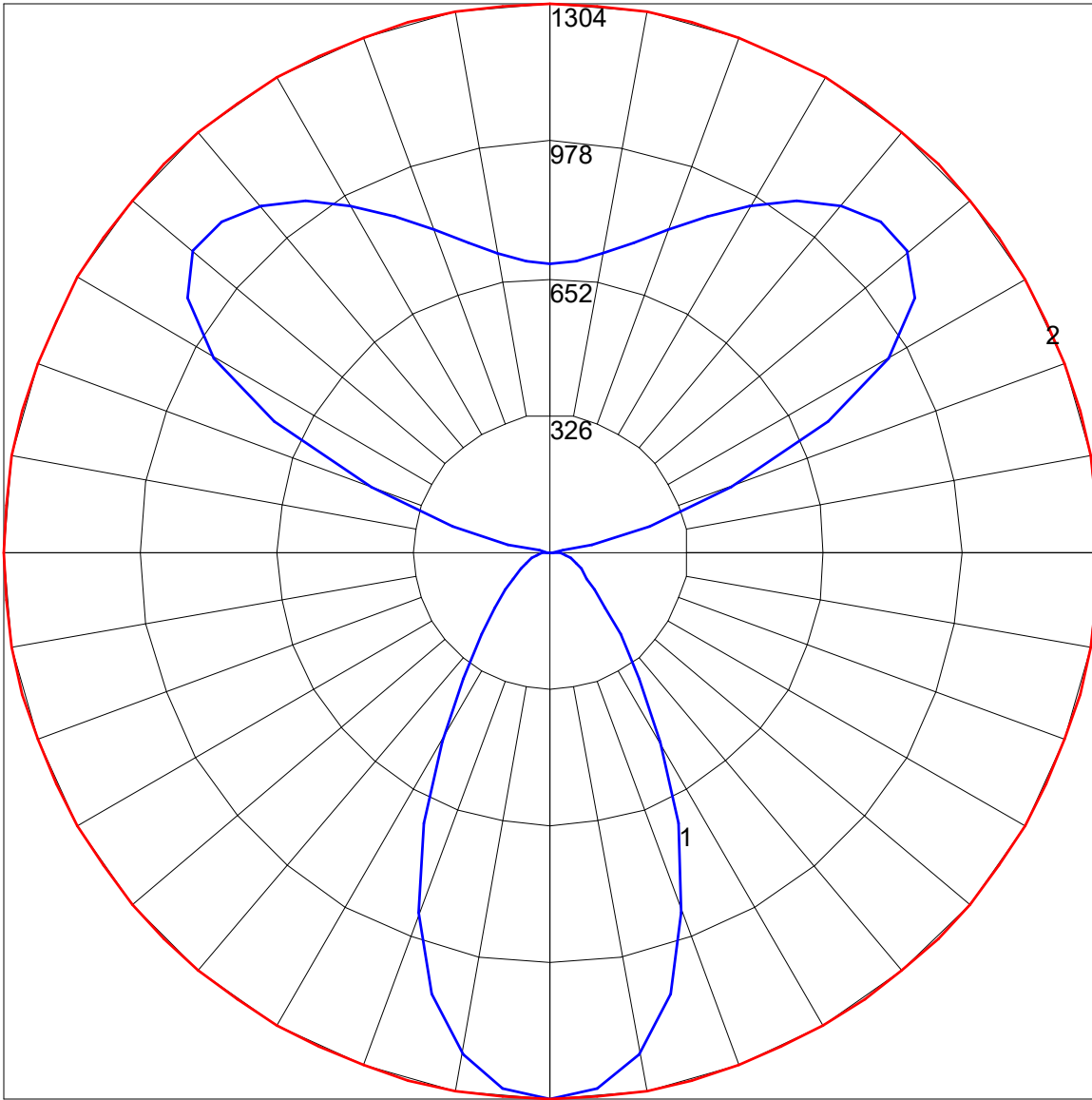
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 1303.84 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.)