

## IES Report

DoubleBox™ | 107 | Wide Batwing, up | 120° FlyWing™, down | 80 CRI | SO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-G1G2-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	126	130	133	133
Total Lumens, 4' rail length (1219mm)	6019	6209	6336	6336
Lumens per foot (305mm)	1505	1552	1584	1584
Lumens per foot UP (305mm)	743	766	782	782
Lumens per foot DOWN (305mm)	761	785	801	801
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\_G1G2.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911505 (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-G1G2-AL

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

[MORE] flywing 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	6331
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	47.84
Ballast Factor	1.00
CIE Type	General Diffuse
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	13619	15262	30197
55	9754	11303	27944
65	5183	6749	26125
75	1803	2800	21333
85	115	291	8431

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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>
<b>0</b>	1060.982	1060.982	1060.982	1060.982	1060.982	1060.982	1060.982	1060.982	1060.982	1060.982
<b>5</b>	1068.232	1067.455	1067.362	1066.434	1066.191	1065.124	1064.346	1063.175	1061.667	1060.507
<b>10</b>	1088.463	1087.825	1086.224	1084.716	1081.944	1078.104	1074.705	1070.228	1065.321	1059.915
<b>15</b>	1112.765	1111.651	1109.749	1105.967	1100.805	1094.344	1086.560	1077.860	1067.258	1057.050
<b>20</b>	1127.358	1126.383	1123.367	1118.797	1112.185	1103.438	1092.500	1080.053	1065.077	1049.174
<b>25</b>	1128.622	1127.938	1124.481	1119.040	1110.630	1101.095	1088.022	1072.118	1053.988	1032.841
<b>30</b>	1113.936	1113.786	1110.630	1104.703	1096.096	1084.565	1070.912	1053.361	1031.484	1006.880
<b>35</b>	1084.275	1083.301	1079.658	1073.336	1065.170	1053.790	1039.302	1020.301	997.878	969.876
<b>40</b>	1034.488	1033.467	1030.161	1024.524	1016.160	1005.279	991.266	972.358	947.813	919.555
<b>45</b>	962.835	962.243	959.181	954.900	947.662	938.034	923.882	905.751	881.878	852.414
<b>50</b>	865.499	864.966	863.168	859.757	854.607	846.974	835.165	818.577	795.586	767.584
<b>55</b>	738.990	738.746	738.027	737.435	735.301	730.580	721.682	708.563	687.950	661.931
<b>60</b>	579.814	580.209	581.960	583.851	585.220	584.976	581.079	572.866	558.285	537.521
<b>65</b>	407.032	407.659	410.095	413.598	417.681	421.034	422.391	420.349	413.401	401.534
<b>70</b>	253.785	254.516	256.998	260.791	265.454	270.756	274.792	277.031	276.300	272.217
<b>75</b>	142.262	142.645	144.200	146.879	150.324	154.315	158.108	161.310	163.258	164.140
<b>80</b>	60.088	60.436	61.457	63.208	65.679	68.695	71.955	75.168	78.323	81.096
<b>85</b>	8.851	8.851	8.990	9.141	9.582	10.069	10.892	12.157	14.001	16.286
<b>90</b>	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661
<b>95</b>	26.355	32.422	30.589	31.285	32.341	34.116	34.997	42.027	46.040	49.138
<b>100</b>	101.802	106.848	109.365	114.573	121.278	128.424	136.660	143.620	152.923	153.735
<b>105</b>	244.354	227.604	243.577	249.957	257.242	269.143	278.168	285.778	292.981	291.137
<b>110</b>	455.555	440.568	442.076	451.704	467.271	468.106	484.312	472.375	460.427	431.833
<b>115</b>	728.689	725.696	699.990	686.755	680.537	676.756	658.196	632.154	599.105	558.192
<b>120</b>	927.339	921.539	908.767	884.744	862.680	831.813	799.043	761.853	704.607	644.670
<b>125</b>	1056.563	1049.812	1034.140	1014.339	989.584	942.883	900.740	839.678	778.476	709.560
<b>130</b>	1111.802	1105.840	1088.753	1062.896	1031.402	989.480	936.224	878.445	812.360	744.418
<b>135</b>	1111.210	1106.188	1090.214	1065.077	1030.312	990.025	939.101	886.310	825.282	764.336
<b>140</b>	1075.239	1070.112	1055.623	1033.096	1003.156	965.944	921.980	874.118	822.939	770.344
<b>145</b>	1018.445	1013.875	1002.298	984.399	959.030	928.151	892.144	851.254	808.833	765.554
<b>150</b>	952.325	948.196	939.728	925.135	905.670	881.078	852.171	820.816	788.800	753.988
<b>155</b>	883.676	880.672	875.069	863.910	849.828	831.813	810.620	787.860	764.220	740.300
<b>160</b>	819.111	817.522	812.928	806.629	796.607	785.181	772.050	756.262	739.697	724.861
<b>165</b>	763.790	762.619	759.719	756.297	751.657	744.732	737.041	728.631	719.571	709.085
<b>170</b>	722.460	721.822	720.418	718.852	716.915	714.641	712.031	707.902	703.621	699.155
<b>175</b>	697.670	697.369	697.125	696.394	695.849	695.258	694.620	693.935	693.216	692.462
<b>180</b>	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>
<b>0</b>	1060.982	1060.982	1060.982	1060.982	1060.982	1060.982	1060.982	1060.982	1060.982
<b>5</b>	1059.625	1058.512	1057.201	1056.609	1056.076	1055.008	1054.382	1054.092	1053.651
<b>10</b>	1054.568	1049.522	1044.708	1040.381	1036.390	1032.841	1030.602	1029.048	1028.073
<b>15</b>	1046.401	1034.256	1023.654	1013.828	1004.595	996.672	991.464	988.111	986.360
<b>20</b>	1032.110	1012.761	995.605	977.370	961.860	948.590	938.185	931.712	929.380
<b>25</b>	1009.362	985.049	958.937	934.148	911.052	890.683	875.220	865.836	861.613
<b>30</b>	978.878	948.288	914.846	882.806	852.032	825.781	805.168	792.663	787.710
<b>35</b>	937.350	901.424	863.655	823.635	787.269	756.355	731.844	716.926	711.474
<b>40</b>	883.676	843.819	801.804	758.536	718.040	682.451	656.827	640.784	635.146
<b>45</b>	815.666	774.578	731.264	685.908	645.064	610.253	584.048	568.446	562.902
<b>50</b>	731.264	690.768	649.055	606.610	569.896	537.567	514.425	499.983	495.227
<b>55</b>	628.824	592.609	556.672	521.432	491.480	465.856	447.679	435.858	431.926
<b>60</b>	511.606	483.070	456.228	431.532	410.918	393.658	381.559	374.019	371.049

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	385.688	369.008	353.788	340.182	329.196	320.195	313.826	309.604	308.340
<b>70</b>	266.382	260.014	254.516	250.038	246.396	244.157	242.069	240.561	239.981
<b>75</b>	164.523	164.616	164.616	164.964	165.497	166.124	166.425	166.367	166.182
<b>80</b>	83.578	85.817	87.615	89.065	90.329	91.164	91.744	92.127	92.081
<b>85</b>	19.546	22.991	25.868	27.956	29.174	29.708	29.847	29.951	29.847
<b>90</b>	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661
<b>95</b>	49.868	61.700	60.262	48.360	44.985	45.286	44.393	42.746	43.662
<b>100</b>	153.491	152.853	141.566	126.104	115.571	106.244	97.892	94.702	95.097
<b>105</b>	283.144	261.128	235.619	205.540	183.025	166.309	154.315	148.236	147.308
<b>110</b>	392.138	356.514	317.585	277.623	247.579	227.383	212.790	205.413	205.076
<b>115</b>	504.217	444.547	390.990	344.996	309.998	286.044	269.538	260.733	260.014
<b>120</b>	580.510	512.511	453.606	406.383	368.451	342.560	326.749	316.552	312.423
<b>125</b>	636.422	568.922	509.136	459.662	420.036	392.846	376.501	366.618	361.723
<b>130</b>	676.814	613.652	557.148	508.486	469.127	439.582	419.676	407.056	397.602
<b>135</b>	702.879	645.946	593.537	550.002	513.845	486.400	468.269	456.994	452.342
<b>140</b>	717.344	668.995	623.639	583.364	551.870	525.990	508.706	498.174	493.278
<b>145</b>	723.040	682.869	645.389	611.738	584.211	562.565	546.337	537.846	532.950
<b>150</b>	721.300	689.840	659.367	634.276	610.682	594.848	580.325	574.339	570.291
<b>155</b>	715.813	692.381	670.932	650.041	634.996	621.690	611.761	606.599	602.864
<b>160</b>	709.189	692.624	676.616	665.167	654.124	643.498	638.847	634.903	631.933
<b>165</b>	699.352	691.372	683.379	675.445	667.615	664.054	661.084	658.381	656.247
<b>170</b>	694.550	689.852	685.200	682.973	680.932	679.029	677.278	675.630	674.238
<b>175</b>	691.685	690.884	690.061	689.237	688.414	687.590	686.755	685.978	685.224
<b>180</b>	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	398.93	N.A.	6.30
0-30	866.50	N.A.	13.70
0-40	1449.91	N.A.	22.90
0-60	2622.13	N.A.	41.40
0-80	3170.85	N.A.	50.10
0-90	3203.88	N.A.	50.60
10-90	3102.67	N.A.	49.00
20-40	1050.98	N.A.	16.60
20-50	1670.91	N.A.	26.40
40-70	1548.14	N.A.	24.50
60-80	548.72	N.A.	8.70
70-80	172.80	N.A.	2.70
80-90	33.02	N.A.	0.50
90-110	313.65	N.A.	5.00
90-120	813.90	N.A.	12.90
90-130	1437.81	N.A.	22.70
90-150	2515.37	N.A.	39.70
90-180	3127.12	N.A.	49.40
110-180	2813.47	N.A.	44.40
0-180	6331.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	101.20
10-20	297.73
20-30	467.57
30-40	583.41
40-50	619.93
50-60	552.29
60-70	375.92
70-80	172.80
80-90	33.02
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

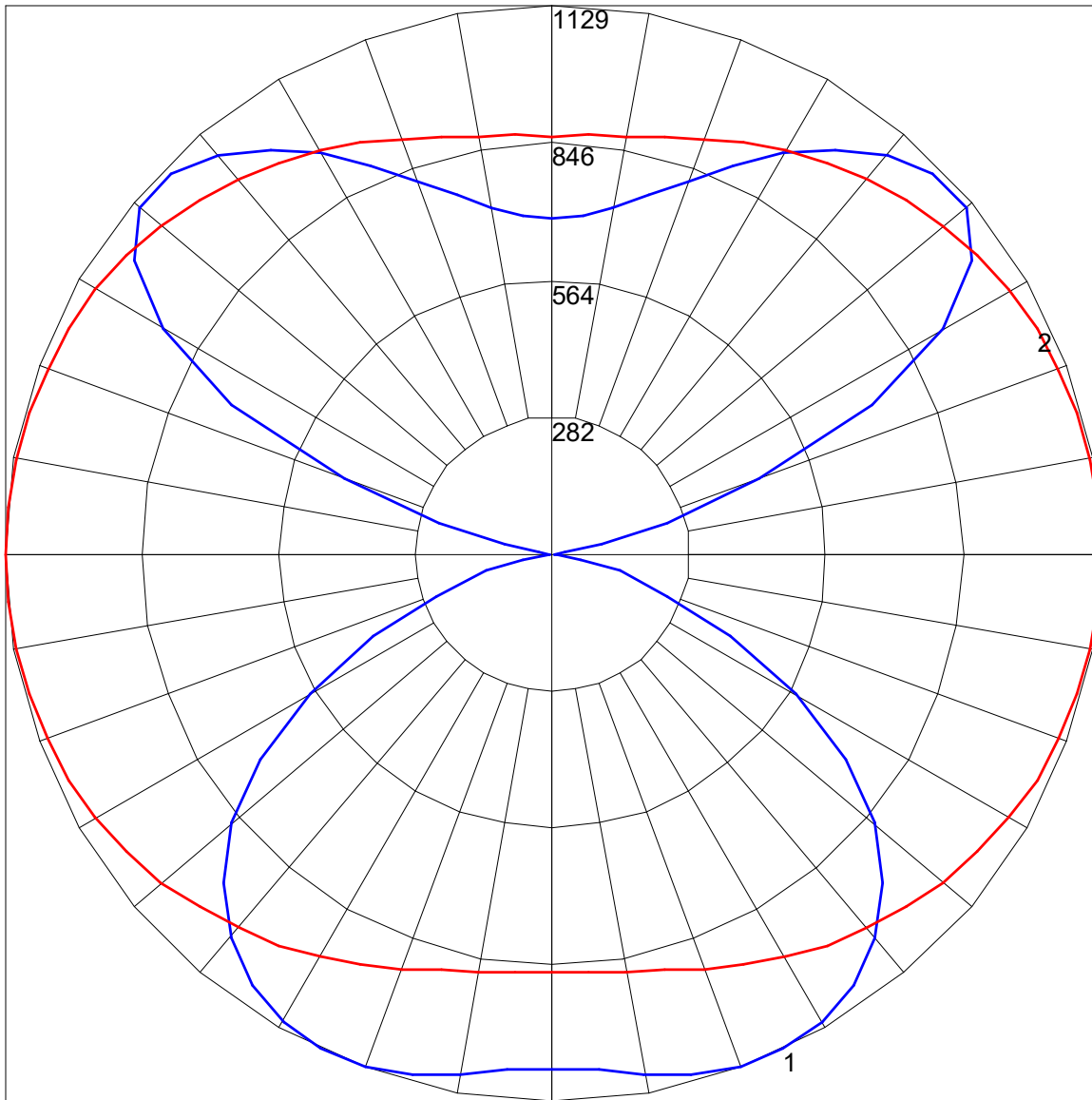
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	90	87	90	87	83	81	74	71	69	61	60	58	50	49	48	43
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	41	36
3	81	72	65	59	75	67	60	55	57	52	48	48	44	41	39	37	34	30
4	74	63	56	49	68	59	52	46	50	45	41	42	38	35	35	32	29	26
5	68	56	48	42	63	52	45	40	45	39	35	38	34	30	31	28	26	22
6	63	51	42	37	58	47	40	34	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	33	28	49	38	31	27	33	28	24	28	24	21	24	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	22	18	16	14
10	47	34	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

POLAR GRAPH



Maximum Candela = 1128.622 Located At Horizontal Angle = 0, Vertical Angle = 25  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)