

**IES Report**

**DoubleBox™ | 107 | 120° 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	80	83	84	86
Total Lumens, 4' rail length (1219mm)	3837	3958	4039	4120
Lumens per foot (305mm)	959	990	1010	1030
Lumens per foot UP (305mm)	692	714	728	743
Lumens per foot DOWN (305mm)	268	276	282	287
Input Power (W), 4' rail length (1219mm)	48.1	48.1	48.1	48.1
Watts per foot (305mm)	12.1	12.1	12.1	12.1
CRI	85	85	85	85

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] L011800108 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
[ISSUEDATE] 1/12/2018  
[MANUFAC] Vode Lighting  
[LUMCAT] 107-DB-48-Z-SO-35-G1S2-BL  
[LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board,  
[MORE] 120° batwing lens up with white polycarbonate reflectors/60° black symmetric lens down, standard output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4039
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	48.06
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)	0.08 ft
Luminous Width (90-270)	3.77 ft
Luminous Height	0.21 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	979	2537	14677
55	387	1000	7521
65	180	413	4015
75	85	175	2264
85	13	33	989

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>	1114.644	1114.644	1114.644	1114.644	1114.644	1114.644	1114.644	1114.644	1114.644	1114.644
<b>5</b>	1081.120	1080.308	1079.450	1079.902	1080.030	1080.412	1081.050	1081.944	1083.080	1084.461
<b>10</b>	981.917	980.571	981.882	984.144	987.914	993.146	999.700	1004.688	1011.184	1019.072
<b>15</b>	828.472	826.883	831.128	837.787	847.148	856.498	869.060	884.674	903.164	921.434
<b>20</b>	643.440	642.443	650.389	661.328	673.832	691.615	713.214	735.080	761.482	786.109
<b>25</b>	459.743	461.158	469.928	481.412	498.765	519.042	542.080	569.862	598.653	631.620
<b>30</b>	302.748	304.430	312.991	326.041	342.838	361.827	383.368	410.779	444.570	477.433
<b>35</b>	188.894	191.006	198.012	209.415	221.815	236.373	253.321	280.685	308.038	338.685
<b>40</b>	114.817	116.684	121.939	129.352	138.075	147.297	163.073	181.969	201.620	229.112
<b>45</b>	70.412	71.885	75.516	79.947	84.912	90.573	103.054	113.761	130.709	145.661
<b>50</b>	44.695	45.576	47.711	50.390	53.256	58.290	64.914	72.802	82.058	94.192
<b>55</b>	29.568	30.102	31.378	33.037	34.452	38.036	41.192	46.771	52.745	59.636
<b>60</b>	20.230	20.625	21.356	22.156	23.119	24.917	27.248	29.684	34.127	38.953
<b>65</b>	14.164	14.384	14.639	15.045	15.822	16.634	18.212	19.906	22.133	24.801
<b>70</b>	9.825	9.872	10.173	10.614	11.194	11.786	12.424	13.201	14.500	16.159
<b>75</b>	6.647	6.635	7.041	7.552	7.737	7.958	8.306	8.723	9.384	10.243
<b>80</b>	2.796	3.434	3.584	3.758	3.851	4.002	4.211	4.594	5.139	5.754
<b>85</b>	0.963	1.520	1.520	1.450	1.415	1.462	1.404	1.485	1.612	1.833
<b>90</b>	0.974	1.056	1.056	1.056	1.056	1.056	1.056	1.056	1.056	1.056
<b>95</b>	39.011	45.147	44.428	45.797	47.467	49.068	50.854	54.903	52.293	51.202
<b>100</b>	153.828	143.016	146.067	146.531	146.728	146.427	145.128	144.548	138.864	132.797
<b>105</b>	270.477	255.652	255.722	256.627	254.481	253.298	250.780	246.755	240.944	229.564
<b>110</b>	394.922	389.482	377.046	373.566	374.982	371.966	369.193	363.161	356.920	337.525
<b>115</b>	526.594	525.840	515.388	506.270	500.911	497.965	490.808	481.284	467.874	446.681
<b>120</b>	652.106	650.621	648.672	641.561	632.525	621.795	611.424	599.848	576.833	545.490
<b>125</b>	767.108	764.985	762.468	758.640	753.060	740.045	727.772	702.624	675.398	638.116
<b>130</b>	865.557	863.446	858.702	852.078	843.946	830.734	811.374	785.134	750.717	705.953
<b>135</b>	943.382	941.653	935.679	926.701	914.590	900.241	874.628	848.238	806.432	763.408
<b>140</b>	997.704	995.083	987.612	976.697	962.846	945.725	917.734	884.442	845.849	796.885
<b>145</b>	1025.162	1021.786	1013.840	1001.938	984.422	963.856	939.055	900.450	860.453	814.958
<b>150</b>	1020.533	1016.694	1009.246	995.152	976.929	954.204	927.954	894.557	856.231	814.668
<b>155</b>	981.430	977.694	971.303	957.742	940.957	919.660	894.778	868.434	835.351	801.282
<b>160</b>	915.542	912.978	906.679	897.678	883.224	866.822	848.053	825.421	801.653	778.522
<b>165</b>	836.174	834.446	830.166	824.702	817.162	806.003	793.602	780.088	765.565	748.896
<b>170</b>	763.547	762.619	760.531	757.932	754.650	750.694	746.089	739.430	732.389	724.988
<b>175</b>	714.525	714.189	713.818	713.017	712.275	711.440	710.500	709.456	708.342	707.148
<b>180</b>	697.160	697.160	697.160	697.160	697.160	697.160	697.160	697.160	697.160	697.160

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>	1114.644	1114.644	1114.644	1114.644	1114.644	1114.644	1114.644	1114.644	1114.644
<b>5</b>	1086.073	1087.883	1089.913	1092.117	1094.483	1097.012	1099.506	1102.394	1105.306
<b>10</b>	1028.282	1038.734	1049.974	1053.048	1056.609	1060.797	1065.553	1070.680	1076.596
<b>15</b>	937.315	949.738	964.169	980.490	999.015	1004.316	1010.348	1017.250	1026.032
<b>20</b>	810.596	836.198	863.574	881.252	901.598	924.903	931.329	938.776	949.646
<b>25</b>	668.357	700.141	730.162	763.593	786.248	809.819	828.020	834.260	845.907
<b>30</b>	514.124	553.065	590.243	622.758	656.618	679.099	705.489	710.419	722.320
<b>35</b>	370.620	403.564	445.347	480.031	511.815	536.581	554.584	565.523	578.608
<b>40</b>	255.432	288.190	318.362	347.060	376.037	402.880	417.078	426.613	434.130
<b>45</b>	169.418	191.203	214.449	239.157	262.021	283.156	294.385	301.971	307.272
<b>50</b>	107.404	123.760	140.163	156.739	172.944	185.890	195.008	201.051	203.151
<b>55</b>	69.020	78.254	88.960	100.897	110.444	118.842	125.779	129.966	130.616
<b>60</b>	44.300	49.683	57.223	64.473	70.702	77.082	81.850	82.360	83.508

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	28.374	32.051	36.192	40.380	44.579	48.175	50.240	51.748	53.267
<b>70</b>	18.166	20.625	23.154	25.520	28.002	30.264	31.529	32.608	33.617
<b>75</b>	11.356	12.760	14.256	15.509	16.797	18.003	18.862	19.418	19.848
<b>80</b>	6.252	7.157	7.876	8.387	9.071	9.489	9.860	10.150	10.312
<b>85</b>	2.030	2.227	2.506	2.912	3.677	3.886	3.724	3.874	3.956
<b>90</b>	1.056	1.056	1.009	0.963	1.009	0.963	1.160	1.160	0.963
<b>95</b>	48.384	43.361	38.744	34.893	30.833	28.107	26.726	26.518	26.970
<b>100</b>	124.433	113.889	104.261	95.340	90.608	86.478	84.761	82.824	84.181
<b>105</b>	214.449	197.432	179.208	161.785	148.642	140.673	137.425	135.001	133.504
<b>110</b>	314.464	288.005	260.014	234.784	217.338	206.666	199.694	196.028	195.344
<b>115</b>	415.605	378.601	341.411	308.989	285.406	269.770	260.014	255.061	255.838
<b>120</b>	507.523	460.984	412.948	375.411	349.288	331.598	320.392	313.362	311.414
<b>125</b>	587.018	535.108	483.674	437.529	407.438	387.046	373.891	366.757	364.484
<b>130</b>	655.887	599.801	546.476	499.531	462.701	438.213	421.474	412.392	411.777
<b>135</b>	706.359	651.096	597.249	550.826	513.056	486.168	469.580	459.534	455.323
<b>140</b>	745.358	690.270	638.963	592.748	557.067	528.612	511.340	500.934	495.970
<b>145</b>	765.588	717.762	670.329	628.523	594.454	568.852	550.536	541.291	536.036
<b>150</b>	772.514	730.440	690.049	655.562	623.755	603.374	584.976	578.132	573.307
<b>155</b>	767.131	733.862	702.693	672.649	650.992	631.875	617.967	611.436	606.541
<b>160</b>	754.220	729.095	705.025	687.636	670.828	654.344	647.640	641.608	636.689
<b>165</b>	733.340	720.383	707.484	694.712	681.825	676.605	671.930	667.534	663.764
<b>170</b>	717.274	709.317	701.348	697.879	694.562	691.360	688.298	685.340	682.637
<b>175</b>	705.883	704.561	703.192	701.788	700.362	698.912	697.427	696.000	694.585
<b>180</b>	697.160	697.160	697.160	697.160	697.160	697.160	697.160	697.160	697.160

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	357.98	N.A.	8.90
0-30	651.81	N.A.	16.10
0-40	879.96	N.A.	21.80
0-60	1080.27	N.A.	26.70
0-80	1123.63	N.A.	27.80
0-90	1126.86	N.A.	27.90
10-90	1025.04	N.A.	25.40
20-40	521.98	N.A.	12.90
20-50	656.22	N.A.	16.20
40-70	230.74	N.A.	5.70
60-80	43.36	N.A.	1.10
70-80	12.92	N.A.	0.30
80-90	3.24	N.A.	0.10
90-110	279.48	N.A.	6.90
90-120	682.24	N.A.	16.90
90-130	1209.39	N.A.	29.90
90-150	2263.15	N.A.	56.00
90-180	2912.27	N.A.	72.10
110-180	2632.78	N.A.	65.20
0-180	4039.13	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	101.82
10-20	256.16
20-30	293.82
30-40	228.15
40-50	134.25
50-60	66.06
60-70	30.43
70-80	12.92
80-90	3.24
90-100	56.15
100-110	223.33
110-120	402.75
120-130	527.15
130-140	557.29
140-150	496.48
150-160	367.81
160-170	213.34
170-180	67.95

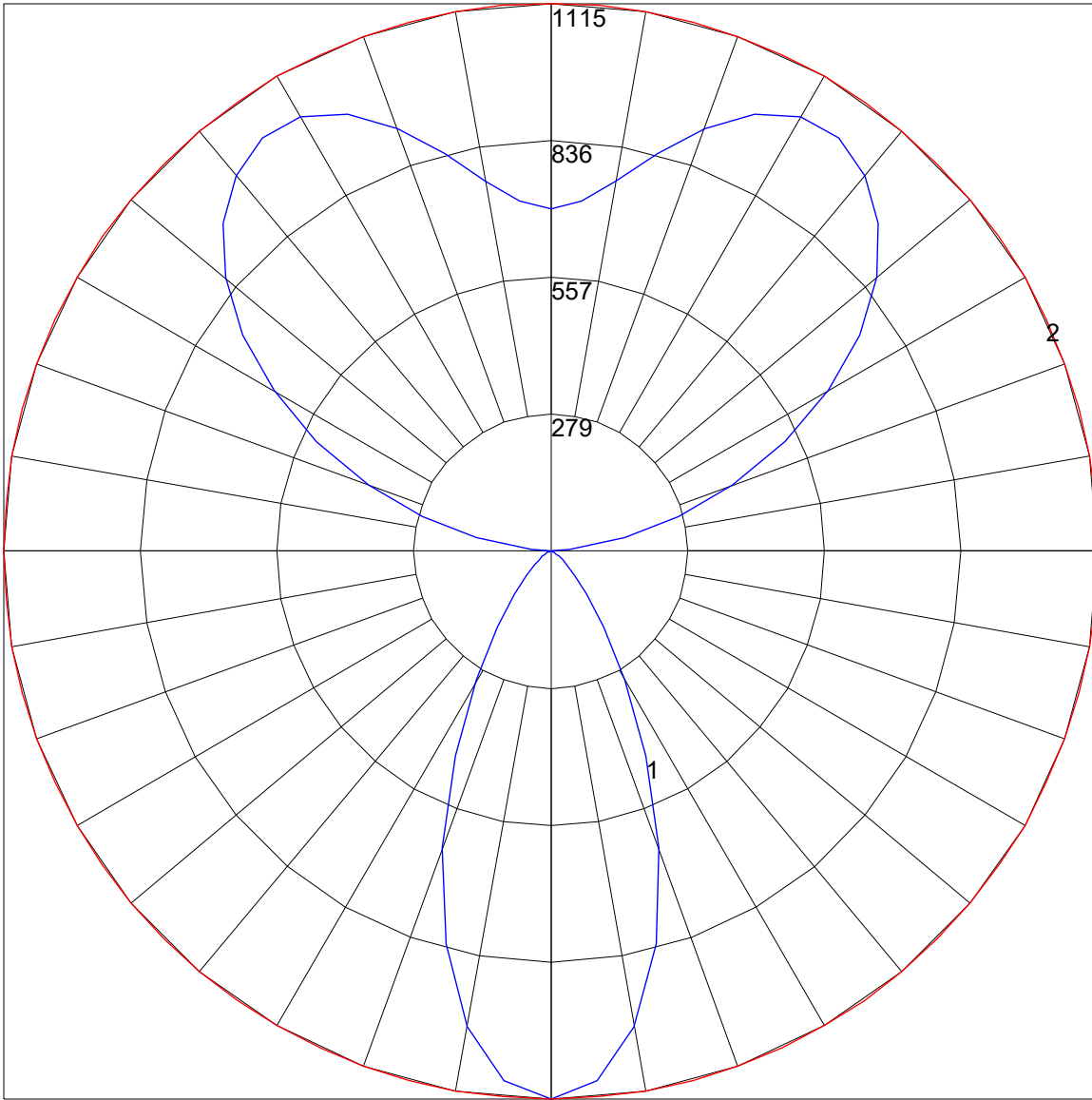
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	71	71	71	53	53	53	36	36	36	28
1	94	90	87	84	84	81	78	76	64	62	60	48	47	46	33	33	32	25
2	86	80	75	70	77	72	67	64	57	54	52	43	41	40	31	30	29	23
3	79	71	65	60	71	64	59	55	51	48	45	39	37	35	28	27	26	21
4	73	64	57	52	66	58	52	47	46	42	39	36	33	31	26	25	23	19
5	68	57	50	45	61	52	46	41	42	38	35	33	30	28	24	23	21	18
6	63	52	45	40	56	47	41	37	38	34	31	30	27	25	22	21	19	16
7	58	47	40	35	52	43	37	33	35	31	28	28	25	23	21	19	18	15
8	54	43	36	31	49	39	33	29	32	28	25	26	23	21	20	18	16	14
9	51	40	33	28	46	36	30	26	30	26	23	24	21	19	18	17	15	13
10	48	37	30	26	43	34	28	24	28	24	21	22	19	17	17	15	14	12

POLAR GRAPH



Maximum Candela = 1114.644 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)