

**IES Report**

**DoubleBox™ | 107 | 120° Batwing, up | Black Baffle, down | 80 CRI | SO**

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-G1BB-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	80	82	84	86
Total Lumens, 4' rail length (1219mm)	3816	3937	4017	4097
Lumens per foot (305mm)	954	984	1004	1024
Lumens per foot UP (305mm)	744	768	783	799
Lumens per foot DOWN (305mm)	210	217	221	226
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-G1BB.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L011800102 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
[ISSUEDATE] 1/9/2018  
[MANUFAC] Vode Lighting  
[LUMCAT] 107-DB-48-Z-SO-35-G1BB  
[LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board,  
[MORE] 120° batwing lens up with white polycarbonate reflectors/black baffle down, standard output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4017
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	48.17
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	362	1032	1201
55	281	256	633
65	184	125	356
75	111	89	275
85	41	51	336

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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>	1119.458	1119.458	1119.458	1119.458	1119.458	1119.458	1119.458	1119.458	1119.458	1119.458
<b>5</b>	1115.224	1101.965	1088.799	1075.993	1063.418	1051.238	1039.546	1028.421	1017.946	1008.202
<b>10</b>	1101.640	1075.018	1049.000	1023.503	998.853	975.212	953.543	936.862	921.782	907.886
<b>15</b>	1080.157	1040.740	1002.449	965.016	930.366	903.605	878.491	855.245	834.017	803.984
<b>20</b>	1049.823	999.386	950.690	904.812	867.054	831.523	793.997	742.122	693.877	649.716
<b>25</b>	1009.745	947.929	888.142	840.432	796.502	739.140	672.301	608.060	569.746	534.725
<b>30</b>	961.686	891.216	825.560	770.066	704.364	625.484	560.268	508.846	459.012	396.964
<b>35</b>	889.256	809.274	738.885	673.879	576.798	501.665	442.784	376.060	307.052	256.024
<b>40</b>	402.149	371.641	352.837	343.151	333.326	337.479	288.109	231.292	200.065	154.814
<b>45</b>	26.007	40.008	67.535	86.872	85.654	78.138	100.920	93.914	82.221	59.241
<b>50</b>	23.119	22.724	22.052	21.251	20.196	23.710	22.052	25.149	26.471	26.877
<b>55</b>	21.483	20.776	19.476	17.818	16.066	14.906	13.676	13.978	14.558	15.277
<b>60</b>	19.743	18.827	17.075	15.045	13.340	11.832	10.916	10.162	9.999	10.011
<b>65</b>	14.454	14.222	13.398	12.087	11.008	10.046	9.234	8.503	7.900	7.494
<b>70</b>	11.368	10.892	10.463	10.011	9.326	8.642	7.969	7.308	6.705	6.194
<b>75</b>	8.665	8.271	8.596	8.271	7.842	7.250	6.682	6.160	5.661	5.220
<b>80</b>	6.937	6.821	6.786	6.566	6.206	5.812	5.382	4.965	4.559	4.234
<b>85</b>	3.086	3.642	3.700	3.608	3.492	3.410	3.236	3.190	2.993	2.819
<b>90</b>	1.079	1.114	1.114	1.114	1.160	1.114	1.114	1.114	1.056	1.056
<b>95</b>	40.844	51.063	50.506	52.142	53.975	55.262	59.612	59.473	58.081	59.090
<b>100</b>	170.207	157.574	160.405	161.054	161.391	160.927	160.208	159.187	154.094	148.967
<b>105</b>	296.102	279.711	280.175	281.196	280.279	279.108	277.321	273.609	267.171	255.061
<b>110</b>	429.316	423.644	409.294	406.197	408.274	404.109	398.495	398.263	382.672	365.678
<b>115</b>	567.344	567.750	557.508	546.580	541.059	539.133	533.565	523.659	509.553	483.650
<b>120</b>	701.324	700.791	699.294	692.311	682.057	672.904	663.334	651.723	626.876	592.424
<b>125</b>	825.386	823.600	821.790	817.846	812.684	799.924	789.426	762.143	733.572	693.622
<b>130</b>	932.014	929.984	925.947	919.114	911.145	898.385	879.002	852.136	815.376	766.273
<b>135</b>	1016.299	1014.478	1009.061	1000.407	988.482	974.214	948.022	920.622	875.023	827.637
<b>140</b>	1076.410	1073.615	1066.539	1055.751	1041.854	1024.930	995.466	959.691	917.142	860.859
<b>145</b>	1109.633	1105.956	1097.534	1084.913	1066.492	1044.708	1017.552	974.400	929.647	877.552
<b>150</b>	1107.232	1102.824	1094.344	1078.348	1058.059	1033.119	1003.597	964.992	921.086	873.886
<b>155</b>	1062.537	1058.256	1050.937	1035.439	1016.195	991.974	963.670	933.440	895.392	856.416
<b>160</b>	986.916	983.935	976.569	966.048	949.089	929.786	907.746	881.554	853.980	828.159
<b>165</b>	894.256	892.202	887.226	880.916	872.216	859.316	845.095	829.702	813.288	794.786
<b>170</b>	811.130	810.086	807.789	804.982	801.432	797.187	792.268	785.076	777.490	769.521
<b>175</b>	759.313	758.930	758.512	757.666	756.888	756.007	755.032	753.965	752.817	751.587
<b>180</b>	742.400	742.400	742.400	742.400	742.400	742.400	742.400	742.400	742.400	742.400

**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>	1119.458	1119.458	1119.458	1119.458	1119.458	1119.458	1119.458	1119.458	1119.458
<b>5</b>	999.259	991.185	984.040	977.880	972.764	968.716	964.563	963.716	963.415
<b>10</b>	895.288	884.059	874.257	864.560	856.498	850.152	845.570	842.334	841.766
<b>15</b>	772.978	743.711	717.611	694.886	675.723	660.852	650.319	643.011	642.373
<b>20</b>	617.306	594.628	574.432	554.294	538.170	526.002	517.859	512.627	512.720
<b>25</b>	503.254	461.924	421.115	386.303	356.491	333.245	316.344	303.630	301.298
<b>30</b>	337.467	287.982	261.789	239.563	221.328	206.608	196.156	185.820	182.143
<b>35</b>	217.918	184.185	151.751	122.635	97.138	77.024	62.814	53.940	50.669
<b>40</b>	110.026	68.498	52.722	47.734	43.245	39.858	37.770	36.540	36.122
<b>45</b>	46.725	39.788	36.006	33.014	30.404	28.072	26.378	25.381	25.137
<b>50</b>	27.666	26.065	24.279	22.608	20.880	19.175	17.899	17.087	16.762
<b>55</b>	16.298	16.159	15.857	15.057	13.955	12.864	11.960	11.333	10.985
<b>60</b>	10.220	10.185	10.150	9.860	9.268	8.584	7.969	7.470	7.227

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	7.250	7.006	6.937	6.705	6.287	5.835	5.440	5.000	4.721
<b>70</b>	5.742	5.406	5.174	4.895	4.536	4.234	3.898	3.515	3.376
<b>75</b>	4.768	4.373	4.060	3.758	3.422	3.120	2.819	2.552	2.413
<b>80</b>	3.840	3.468	3.213	2.923	2.622	2.308	2.134	1.926	1.740
<b>85</b>	2.680	2.540	2.378	2.227	1.960	1.752	1.496	1.404	1.346
<b>90</b>	1.056	1.009	0.870	0.870	0.870	0.870	0.673	0.673	0.673
<b>95</b>	54.056	47.989	42.665	38.106	33.304	30.682	29.626	29.174	28.710
<b>100</b>	138.968	124.700	111.638	101.871	94.807	91.408	91.188	90.805	88.902
<b>105</b>	237.023	213.660	189.706	169.348	157.690	151.415	147.958	147.111	147.958
<b>110</b>	341.585	308.746	275.662	248.286	230.028	220.713	216.769	213.196	212.964
<b>115</b>	447.052	398.309	359.032	326.215	301.844	287.947	281.161	277.275	276.161
<b>120</b>	549.631	495.772	439.663	398.506	370.110	352.524	342.977	338.708	339.149
<b>125</b>	635.170	573.527	514.031	463.954	428.887	406.255	394.133	389.621	388.182
<b>130</b>	709.375	642.396	580.406	527.870	488.279	464.418	449.836	442.424	440.870
<b>135</b>	761.134	696.267	633.430	582.262	541.894	514.240	499.044	490.645	487.780
<b>140</b>	800.957	736.762	677.834	626.319	588.422	559.120	543.089	534.400	531.512
<b>145</b>	819.888	763.999	710.500	664.448	628.732	602.562	584.791	576.218	571.776
<b>150</b>	825.595	777.420	731.647	694.631	661.084	640.656	622.328	615.531	610.879
<b>155</b>	817.533	780.088	745.636	712.739	690.502	671.327	657.488	651.015	646.224
<b>160</b>	801.490	773.871	747.365	729.188	711.776	694.875	688.576	683.101	678.786
<b>165</b>	777.873	764.173	750.566	737.099	723.550	718.075	713.180	708.563	704.596
<b>170</b>	761.238	752.701	744.128	740.474	736.971	733.607	730.394	727.320	724.536
<b>175</b>	750.311	748.966	747.585	746.170	744.743	743.293	741.808	740.393	738.990
<b>180</b>	742.400	742.400	742.400	742.400	742.400	742.400	742.400	742.400	742.400

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	323.52	N.A.	8.10
0-30	588.11	N.A.	14.60
0-40	792.69	N.A.	19.70
0-60	866.49	N.A.	21.60
0-80	881.04	N.A.	21.90
0-90	883.96	N.A.	22.00
10-90	788.72	N.A.	19.60
20-40	469.17	N.A.	11.70
20-50	528.56	N.A.	13.20
40-70	82.53	N.A.	2.10
60-80	14.55	N.A.	0.40
70-80	5.83	N.A.	0.10
80-90	2.93	N.A.	0.10
90-110	305.08	N.A.	7.60
90-120	739.23	N.A.	18.40
90-130	1306.41	N.A.	32.50
90-150	2439.46	N.A.	60.70
90-180	3133.03	N.A.	78.00
110-180	2827.95	N.A.	70.40
0-180	4017.00	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	95.25
10-20	228.27
20-30	264.59
30-40	204.58
40-50	59.39
50-60	14.41
60-70	8.73
70-80	5.83
80-90	2.93
90-100	61.93
100-110	243.16
110-120	434.15
120-130	567.18
130-140	599.41
140-150	533.65
150-160	394.21
160-170	227.14
170-180	72.21

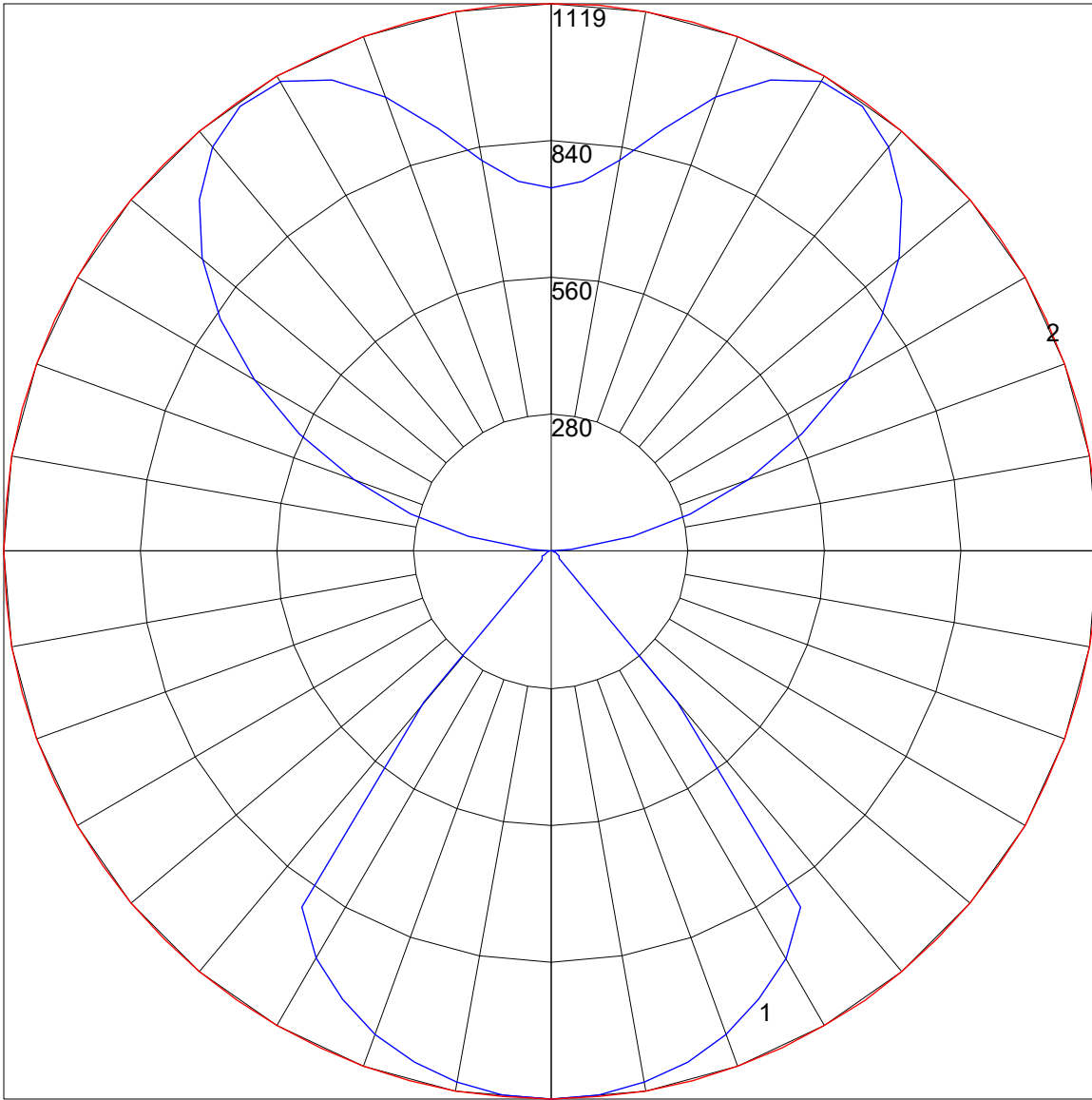
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	100	100	100	100	89	89	89	89	68	68	68	48	48	48	30	30	30	22	0
1	92	89	85	82	82	79	76	74	61	59	57	44	43	42	28	28	27	20	0
2	85	79	73	69	75	70	66	62	54	52	49	40	38	37	26	25	25	19	0
3	78	70	64	59	69	63	58	53	49	46	43	36	34	32	24	23	22	17	0
4	72	63	56	51	64	56	51	46	44	40	37	33	31	29	23	21	21	16	0
5	67	57	49	44	59	51	45	41	40	36	33	30	28	26	21	20	19	15	0
6	62	51	44	39	55	46	40	36	37	33	30	28	25	23	20	18	17	14	0
7	57	47	40	35	51	42	36	32	34	30	26	26	23	21	18	17	16	13	0
8	53	43	36	31	48	39	33	29	31	27	24	24	21	19	17	16	15	12	0
9	50	39	32	28	45	36	30	26	29	25	22	22	20	18	16	15	14	11	0
10	47	36	30	25	42	33	27	23	27	23	20	21	18	16	15	14	13	11	0

POLAR GRAPH



Maximum Candela = 1119.458 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.)