

**IES Report**

**DoubleBox™ | 107 | Wide 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	83	85	87	87
Total Lumens, 4' rail length (1219mm)	3934	4058	4141	4141
Lumens per foot (305mm)	984	1015	1035	1035
Lumens per foot UP (305mm)	743	766	782	782
Lumens per foot DOWN (305mm)	241	248	253	253
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](http://vode.com).



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE\_107\_DB\_SO\_35\_G1BB.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911508 (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-G1BB-AL

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

[MORE] black baffle 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	4141
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
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	345	1071	1408
55	279	246	629
65	198	103	280
75	120	72	137
85	49	45	56

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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>	1154.618	1154.618	1154.618	1154.618	1154.618	1154.618	1154.618	1154.618	1154.618	1154.618
<b>5</b>	1153.411	1152.831	1150.592	1147.623	1143.644	1138.436	1132.891	1126.232	1119.818	1113.542
<b>10</b>	1143.598	1140.431	1131.244	1117.242	1099.112	1080.436	1062.444	1044.708	1027.783	1012.425
<b>15</b>	1122.300	1115.642	1094.970	1066.632	1036.100	1006.880	978.286	948.973	919.172	892.284
<b>20</b>	1092.442	1080.343	1045.288	1004.885	963.368	921.411	878.619	837.450	798.938	765.496
<b>25</b>	1054.034	1034.929	986.603	935.900	879.988	824.609	772.931	724.501	679.145	635.970
<b>30</b>	1006.486	979.121	918.592	856.648	787.373	723.295	665.724	607.144	544.179	484.474
<b>35</b>	949.216	913.871	841.916	767.236	688.669	619.394	548.657	471.354	392.347	333.477
<b>40</b>	568.342	561.057	560.373	558.378	540.050	490.750	402.358	330.600	250.630	166.762
<b>45</b>	24.406	25.427	27.562	32.086	52.803	85.272	131.799	144.838	87.557	59.844
<b>50</b>	21.878	21.495	20.416	19.210	18.189	17.702	18.664	22.272	27.712	31.506
<b>55</b>	21.100	20.416	18.722	16.866	14.825	13.131	11.960	11.762	12.540	14.396
<b>60</b>	20.323	19.302	17.261	15.022	12.737	10.788	9.535	8.700	8.271	8.364
<b>65</b>	15.556	14.976	13.665	12.203	10.602	9.187	8.166	7.296	6.612	6.125
<b>70</b>	12.157	11.716	10.788	9.825	8.700	7.784	6.902	6.229	5.545	5.011
<b>75</b>	9.431	9.187	8.561	7.923	7.250	6.566	5.881	5.255	4.663	4.234
<b>80</b>	7.586	7.343	6.809	6.322	5.881	5.301	4.814	4.327	3.793	3.399
<b>85</b>	3.793	3.793	3.642	3.550	3.457	3.352	3.213	3.062	2.819	2.529
<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>	1154.618	1154.618	1154.618	1154.618	1154.618	1154.618	1154.618	1154.618	1154.618
<b>5</b>	1107.232	1101.733	1096.768	1092.152	1088.556	1085.644	1083.405	1082.280	1081.851
<b>10</b>	997.449	983.784	971.338	960.399	951.014	943.672	938.231	935.018	934.044
<b>15</b>	867.634	844.886	825.537	808.810	795.296	784.740	777.397	772.978	771.272
<b>20</b>	735.104	706.858	681.477	658.729	639.079	622.850	610.589	603.304	600.729
<b>25</b>	592.168	549.875	512.047	479.277	452.632	432.112	417.577	408.830	405.861
<b>30</b>	428.620	380.631	339.938	301.623	268.227	240.422	219.750	207.362	202.838
<b>35</b>	269.398	205.413	148.434	105.792	82.314	69.913	63.696	60.575	59.601
<b>40</b>	97.626	68.405	58.000	52.270	47.989	44.579	42.154	40.646	40.159
<b>45</b>	51.782	45.797	40.449	36.076	32.619	29.998	28.049	26.738	26.251
<b>50</b>	31.749	29.464	26.448	23.536	21.147	19.210	17.702	16.774	16.333
<b>55</b>	16.147	16.727	15.904	14.488	13.131	11.820	10.742	10.011	9.721
<b>60</b>	8.700	9.094	9.141	8.700	7.969	7.250	6.566	5.986	5.638

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	5.881	5.742	5.638	5.348	5.011	4.524	3.990	3.550	3.306
<b>70</b>	4.617	4.234	3.944	3.596	3.260	2.865	2.529	2.134	1.949
<b>75</b>	3.700	3.306	2.970	2.622	2.285	1.949	1.601	1.357	1.067
<b>80</b>	2.970	2.575	2.285	1.949	1.705	1.357	1.114	0.777	0.580
<b>85</b>	2.332	1.995	1.659	1.462	1.172	0.974	0.731	0.441	0.197
<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	360.16	N.A.	8.70
0-30	666.19	N.A.	16.10
0-40	910.84	N.A.	22.00
0-60	997.29	N.A.	24.10
0-80	1010.14	N.A.	24.40
0-90	1013.98	N.A.	24.50
10-90	910.29	N.A.	22.00
20-40	550.67	N.A.	13.30
20-50	623.42	N.A.	15.10
40-70	94.28	N.A.	2.30
60-80	12.85	N.A.	0.30
70-80	5.03	N.A.	0.10
80-90	3.84	N.A.	0.10
90-110	313.65	N.A.	7.60
90-120	813.90	N.A.	19.70
90-130	1437.81	N.A.	34.70
90-150	2515.37	N.A.	60.70
90-180	3127.12	N.A.	75.50
110-180	2813.47	N.A.	67.90
0-180	4141.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	103.69
10-20	256.48
20-30	306.02
30-40	244.65
40-50	72.75
50-60	13.71
60-70	7.82
70-80	5.03
80-90	3.84
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

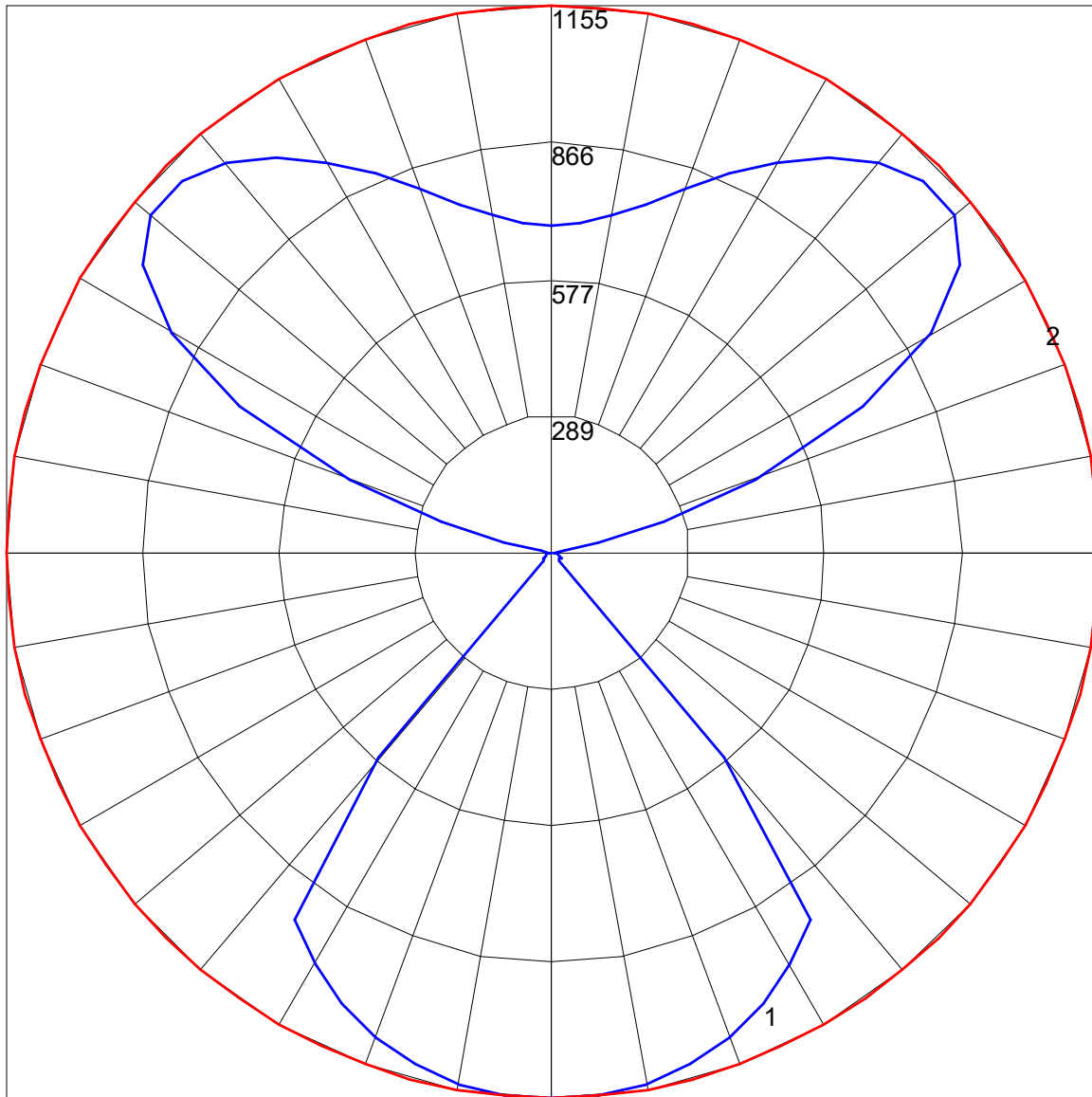
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	101	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	24
1	93	89	86	83	83	83	80	77	75	62	60	59	46	45	44	30	30	30	23
2	86	79	74	70	70	76	71	67	63	56	53	50	41	40	38	28	27	27	21
3	79	71	65	60	60	70	64	59	54	50	47	44	38	36	34	26	25	24	19
4	73	64	57	52	52	65	57	52	47	46	42	39	35	32	30	24	23	22	18
5	67	57	50	45	45	60	52	46	41	42	37	34	32	29	27	23	21	20	17
6	63	52	45	40	40	56	47	41	37	38	34	31	29	27	25	21	20	19	16
7	58	47	40	35	35	52	43	37	33	35	31	28	27	24	22	20	18	17	14
8	54	43	36	32	32	49	39	34	29	32	28	25	25	22	20	19	17	16	14
9	51	40	33	29	29	46	36	31	27	30	26	23	23	21	19	18	16	15	13
10	47	37	30	26	26	43	34	28	24	28	24	21	22	19	17	17	15	14	12

POLAR GRAPH



Maximum Candela = 1154.618 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.)