

**IES Report**

**DoubleBox™ | 107 | 120° Batwing, up | 60° Symmetric, down | 80 CRI | LO**

**107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-G1S2-X-BL-X**

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	65	67	68	69
Total Lumens, 4' rail length (1219mm)	1919	1979	2020	2060
Lumens per foot (305mm)	480	495	505	515
Lumens per foot UP (305mm)	346	357	364	371
Lumens per foot DOWN (305mm)	134	138	141	144
Input Power (W), 4' rail length (1219mm)	29.9	29.9	29.9	29.9
Watts per foot (305mm)	7.5	7.5	7.5	7.5
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\_LO\_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-LO-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, low output  
 [TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2020
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	29.9
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	490	1268	7338
55	194	500	3761
65	90	207	2007
75	42	87	1132
85	6	17	494

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>	557.322	557.322	557.322	557.322	557.322	557.322	557.322	557.322	557.322	557.322
<b>5</b>	540.560	540.154	539.725	539.951	540.015	540.206	540.525	540.972	541.540	542.230
<b>10</b>	490.958	490.286	490.941	492.072	493.957	496.573	499.850	502.344	505.592	509.536
<b>15</b>	414.236	413.441	415.564	418.893	423.574	428.249	434.530	442.337	451.582	460.717
<b>20</b>	321.720	321.221	325.194	330.664	336.916	345.808	356.607	367.540	380.741	393.054
<b>25</b>	229.871	230.579	234.964	240.706	249.383	259.521	271.040	284.931	299.326	315.810
<b>30</b>	151.374	152.215	156.496	163.021	171.419	180.914	191.684	205.390	222.285	238.716
<b>35</b>	94.447	95.503	99.006	104.707	110.908	118.187	126.660	140.343	154.019	169.343
<b>40</b>	57.408	58.342	60.970	64.676	69.037	73.648	81.536	90.985	100.810	114.556
<b>45</b>	35.206	35.943	37.758	39.974	42.456	45.286	51.527	56.881	65.354	72.831
<b>50</b>	22.347	22.788	23.855	25.195	26.628	29.145	32.457	36.401	41.029	47.096
<b>55</b>	14.784	15.051	15.689	16.518	17.226	19.018	20.596	23.386	26.373	29.818
<b>60</b>	10.115	10.312	10.678	11.078	11.559	12.458	13.624	14.842	17.064	19.476
<b>65</b>	7.082	7.192	7.320	7.523	7.911	8.317	9.106	9.953	11.066	12.400
<b>70</b>	4.913	4.936	5.087	5.307	5.597	5.893	6.212	6.600	7.250	8.079
<b>75</b>	3.323	3.318	3.521	3.776	3.869	3.979	4.153	4.362	4.692	5.121
<b>80</b>	1.398	1.717	1.792	1.879	1.926	2.001	2.105	2.297	2.569	2.877
<b>85</b>	0.481	0.760	0.760	0.725	0.708	0.731	0.702	0.742	0.806	0.916
<b>90</b>	0.487	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528
<b>95</b>	19.505	22.574	22.214	22.898	23.734	24.534	25.427	27.451	26.146	25.601
<b>100</b>	76.914	71.508	73.034	73.266	73.364	73.213	72.564	72.274	69.432	66.398
<b>105</b>	135.239	127.826	127.861	128.313	127.240	126.649	125.390	123.378	120.472	114.782
<b>110</b>	197.461	194.741	188.523	186.783	187.491	185.983	184.597	181.581	178.460	168.763
<b>115</b>	263.297	262.920	257.694	253.135	250.456	248.982	245.404	240.642	233.937	223.341
<b>120</b>	326.053	325.310	324.336	320.781	316.262	310.897	305.712	299.924	288.417	272.745
<b>125</b>	383.554	382.493	381.234	379.320	376.530	370.023	363.886	351.312	337.699	319.058
<b>130</b>	432.779	431.723	429.351	426.039	421.973	415.367	405.687	392.567	375.359	352.976
<b>135</b>	471.691	470.827	467.840	463.350	457.295	450.121	437.314	424.119	403.216	381.704
<b>140</b>	498.852	497.541	493.806	488.348	481.423	472.862	458.867	442.221	422.924	398.443
<b>145</b>	512.581	510.893	506.920	500.969	492.211	481.928	469.527	450.225	430.227	407.479
<b>150</b>	510.267	508.347	504.623	497.576	488.464	477.102	463.977	447.279	428.115	407.334
<b>155</b>	490.715	488.847	485.651	478.871	470.479	459.830	447.389	434.217	417.675	400.641
<b>160</b>	457.771	456.489	453.340	448.839	441.612	433.411	424.026	412.711	400.826	389.261
<b>165</b>	418.087	417.223	415.083	412.351	408.581	403.001	396.801	390.044	382.783	374.448
<b>170</b>	381.773	381.309	380.265	378.966	377.325	375.347	373.044	369.715	366.195	362.494
<b>175</b>	357.263	357.094	356.909	356.509	356.137	355.720	355.250	354.728	354.171	353.574
<b>180</b>	348.580	348.580	348.580	348.580	348.580	348.580	348.580	348.580	348.580	348.580

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>	557.322	557.322	557.322	557.322	557.322	557.322	557.322	557.322	557.322
<b>5</b>	543.037	543.941	544.956	546.058	547.242	548.506	549.753	551.197	552.653
<b>10</b>	514.141	519.367	524.987	526.524	528.305	530.398	532.776	535.340	538.298
<b>15</b>	468.657	474.869	482.084	490.245	499.508	502.158	505.174	508.625	513.016
<b>20</b>	405.298	418.099	431.787	440.626	450.799	462.451	465.665	469.388	474.823
<b>25</b>	334.179	350.071	365.081	381.797	393.124	404.910	414.010	417.130	422.953
<b>30</b>	257.062	276.532	295.121	311.379	328.309	339.549	352.744	355.209	361.160
<b>35</b>	185.310	201.782	222.674	240.016	255.908	268.291	277.292	282.762	289.304
<b>40</b>	127.716	144.095	159.181	173.530	188.019	201.440	208.539	213.307	217.065
<b>45</b>	84.709	95.601	107.225	119.579	131.010	141.578	147.192	150.986	153.636
<b>50</b>	53.702	61.880	70.081	78.370	86.472	92.945	97.504	100.526	101.575
<b>55</b>	34.510	39.127	44.480	50.448	55.222	59.421	62.889	64.983	65.308
<b>60</b>	22.150	24.841	28.611	32.236	35.351	38.541	40.925	41.180	41.754

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DB\_LO\_35\_G1S2\_BL.IES**

**CANDELA TABULATION - (Cont.)**

<b>65</b>	14.187	16.025	18.096	20.190	22.289	24.087	25.120	25.874	26.634
<b>70</b>	9.083	10.312	11.577	12.760	14.001	15.132	15.764	16.304	16.808
<b>75</b>	5.678	6.380	7.128	7.755	8.398	9.002	9.431	9.709	9.924
<b>80</b>	3.126	3.579	3.938	4.193	4.536	4.744	4.930	5.075	5.156
<b>85</b>	1.015	1.114	1.253	1.456	1.839	1.943	1.862	1.937	1.978
<b>90</b>	0.528	0.528	0.505	0.481	0.505	0.481	0.580	0.580	0.481
<b>95</b>	24.192	21.680	19.372	17.446	15.416	14.053	13.363	13.259	13.485
<b>100</b>	62.217	56.944	52.130	47.670	45.304	43.239	42.381	41.412	42.091
<b>105</b>	107.225	98.716	89.604	80.893	74.321	70.337	68.713	67.500	66.752
<b>110</b>	157.232	144.002	130.007	117.392	108.669	103.333	99.847	98.014	97.672
<b>115</b>	207.802	189.300	170.706	154.495	142.703	134.885	130.007	127.530	127.919
<b>120</b>	253.762	230.492	206.474	187.705	174.644	165.799	160.196	156.681	155.707
<b>125</b>	293.509	267.554	241.837	218.764	203.719	193.523	186.946	183.379	182.242
<b>130</b>	327.944	299.901	273.238	249.765	231.350	219.107	210.737	206.196	205.888
<b>135</b>	353.179	325.548	298.625	275.413	256.528	243.084	234.790	229.767	227.662
<b>140</b>	372.679	345.135	319.481	296.374	278.533	264.306	255.670	250.467	247.985
<b>145</b>	382.794	358.881	335.165	314.261	297.227	284.426	275.268	270.645	268.018
<b>150</b>	386.257	365.220	345.025	327.781	311.878	301.687	292.488	289.066	286.653
<b>155</b>	383.566	366.931	351.347	336.325	325.496	315.938	308.983	305.718	303.270
<b>160</b>	377.110	364.547	352.512	343.818	335.414	327.172	323.820	320.804	318.345
<b>165</b>	366.670	360.192	353.742	347.356	340.912	338.302	335.965	333.767	331.882
<b>170</b>	358.637	354.658	350.674	348.940	347.281	345.680	344.149	342.670	341.318
<b>175</b>	352.942	352.280	351.596	350.894	350.181	349.456	348.713	348.000	347.292
<b>180</b>	348.580	348.580	348.580	348.580	348.580	348.580	348.580	348.580	348.580

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DB\_LO\_35\_G1S2\_BL.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	178.99	N.A.	8.90
0-30	325.90	N.A.	16.10
0-40	439.98	N.A.	21.80
0-60	540.13	N.A.	26.70
0-80	561.81	N.A.	27.80
0-90	563.43	N.A.	27.90
10-90	512.52	N.A.	25.40
20-40	260.99	N.A.	12.90
20-50	328.11	N.A.	16.20
40-70	115.37	N.A.	5.70
60-80	21.68	N.A.	1.10
70-80	6.46	N.A.	0.30
80-90	1.62	N.A.	0.10
90-110	139.74	N.A.	6.90
90-120	341.12	N.A.	16.90
90-130	604.69	N.A.	29.90
90-150	1131.58	N.A.	56.00
90-180	1456.13	N.A.	72.10
110-180	1316.39	N.A.	65.20
0-180	2019.56	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	50.91
10-20	128.08
20-30	146.91
30-40	114.08
40-50	67.12
50-60	33.03
60-70	15.22
70-80	6.46
80-90	1.62
90-100	28.08
100-110	111.67
110-120	201.38
120-130	263.58
130-140	278.65
140-150	248.24
150-160	183.91
160-170	106.67
170-180	33.98

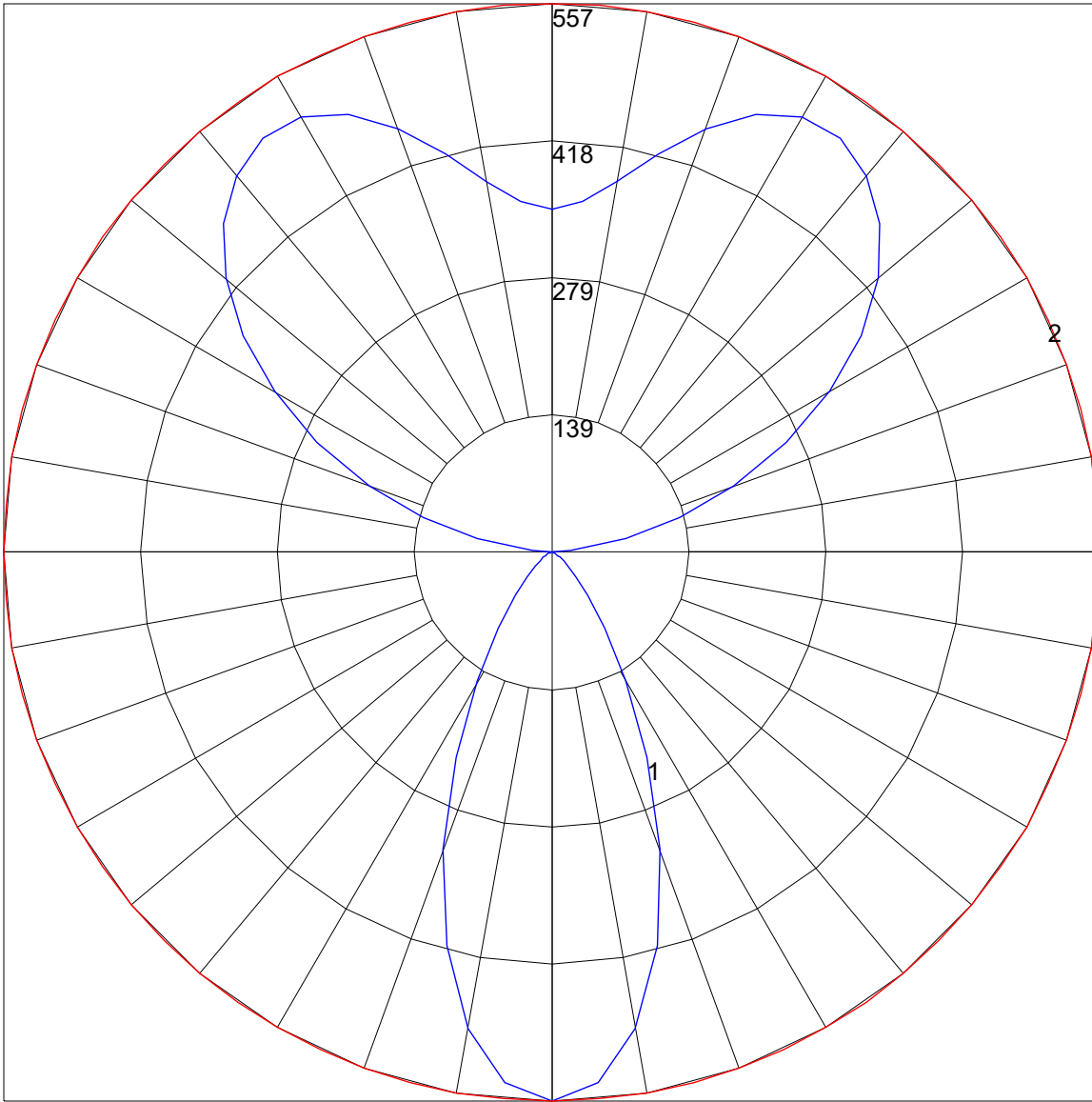
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VODE\_107\_DB\_LO\_35\_G1S2\_BL.IES**

**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	51	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	47	37	30	26	43	34	28	24	28	24	21	22	19	17	17	15	14	12

POLAR GRAPH



Maximum Candela = 557.322 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.)