

IES Report

DoubleBox™ | 107 | Wide 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	74	76	77	77
Total Lumens, 4' rail length (1219mm)	2019	2083	2125	2125
Lumens per foot (305mm)	505	521	531	531
Lumens per foot UP (305mm)	371	383	391	391
Lumens per foot DOWN (305mm)	133	138	140	140
Input Power (W), 4' rail length (1219mm)	27.6	27.6	27.6	27.6
Watts per foot (305mm)	6.9	6.9	6.9	6.9
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_LO_35_G1S2_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911513 (SOURCE REPORTS FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUEDATE] 3/18/20

[MANUFAC] Vode Lighting

[LUMCAT] 107-DB-48-Z-LO-35-G1S2-BL

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

[MORE] 60° symmetric lens down, low output, black anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2125
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	27.64
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	611	1281	8673
55	216	485	4910
65	88	201	2785
75	34	79	1592
85	1	10	632

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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>
0.0	523.705	523.705	523.705	523.705	523.705	523.705	523.705	523.705	523.705	523.705
1.0	500.470	504.072	503.707	507.326	518.387	524.830	529.157	531.883	533.971	537.712
3.0	502.611	505.505	505.313	510.342	520.069	525.509	528.914	532.539	537.231	541.360
5.0	501.155	502.906	503.295	507.158	516.519	521.768	524.854	529.836	535.966	539.876
7.0	487.200	488.122	489.340	492.571	503.997	509.054	511.438	515.788	521.455	529.546
9.0	470.281	470.838	472.201	475.704	487.519	491.991	496.196	502.245	512.703	518.926
11.0	448.647	448.137	449.813	452.243	463.478	469.092	471.888	479.034	492.988	502.152
13.0	421.712	420.546	422.078	424.508	434.791	440.962	445.266	455.184	469.846	481.174
15.0	394.441	393.124	395.287	397.184	406.400	413.302	419.305	434.768	449.036	461.581
17.0	364.391	362.082	364.803	367.065	375.109	381.066	386.976	400.490	416.486	431.798
19.5	324.284	321.558	324.742	325.716	333.396	338.940	348.661	366.189	383.548	399.492
22.5	274.398	271.069	273.673	272.797	278.992	286.358	295.377	311.182	331.087	349.027
25.5	228.798	225.005	228.381	230.596	234.268	241.245	251.645	267.693	286.334	305.561
29.0	177.358	174.006	176.703	174.516	177.822	184.214	194.474	208.377	227.093	246.349
33.0	127.815	124.775	127.745	130.442	131.608	134.305	142.547	154.848	170.943	187.810
37.5	85.080	83.039	85.376	83.816	85.614	89.772	96.970	107.254	119.747	134.305
42.5	53.337	51.800	53.238	54.717	55.135	56.399	61.039	67.628	76.357	87.000
47.5	33.014	32.138	33.014	33.669	34.011	35.177	38.309	42.810	49.033	56.127
55.0	16.385	15.973	16.408	16.431	16.774	17.551	19.128	21.390	24.720	28.420
65.0	6.902	6.757	6.954	7.001	7.122	7.465	8.120	9.118	10.405	11.960
75.0	2.720	2.697	2.772	2.749	2.819	3.016	3.260	3.550	4.060	4.617
85.0	0.046	0.046	0.046	0.046	0.046	0.099	0.145	0.220	0.365	0.534
90.0	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830
95.0	13.178	16.211	15.295	15.643	16.170	17.058	17.499	21.013	23.020	24.569
100.0	50.901	53.424	54.682	57.287	60.639	64.212	68.330	71.810	76.461	76.867
105.0	122.177	113.802	121.788	124.978	128.621	134.572	139.084	142.889	146.491	145.568
110.0	227.778	220.284	221.038	225.852	233.636	234.053	242.156	236.188	230.214	215.917
115.0	364.344	362.848	349.995	343.377	340.269	338.378	329.098	316.077	299.553	279.096
120.0	463.669	460.769	454.384	442.372	431.340	415.906	399.521	380.927	352.304	322.335
125.0	528.281	524.906	517.070	507.169	494.792	471.441	450.370	419.839	389.238	354.780
130.0	555.901	552.920	544.376	531.448	515.701	494.740	468.112	439.222	406.180	372.209
135.0	555.605	553.094	545.107	532.539	515.156	495.013	469.551	443.155	412.641	382.168
140.0	537.619	535.056	527.812	516.548	501.578	482.972	460.990	437.059	411.469	385.172
145.0	509.223	506.937	501.149	492.200	479.515	464.075	446.072	425.627	404.417	382.777
150.0	476.163	474.098	469.864	462.567	452.835	440.539	426.085	410.408	394.400	376.994
155.0	441.838	440.336	437.535	431.955	424.914	415.906	405.310	393.930	382.110	370.150
160.0	409.555	408.761	406.464	403.315	398.303	392.590	386.025	378.131	369.849	362.430
165.0	381.895	381.309	379.859	378.148	375.828	372.366	368.520	364.315	359.786	354.542
170.0	361.230	360.911	360.209	359.426	358.457	357.321	356.016	353.951	351.811	349.578
175.0	348.835	348.684	348.563	348.197	347.925	347.629	347.310	346.968	346.608	346.231
180.0	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520

Vert. Horizontal Angles
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>
0.0	523.705	523.705	523.705	523.705	523.705	523.705	523.705	523.705	523.705
1.0	541.018	542.990	545.374	547.996	549.504	550.745	551.423	551.789	552.496
3.0	543.646	546.783	548.535	549.915	550.379	551.499	552.108	552.351	552.641
5.0	542.967	544.545	545.931	545.977	547.149	548.361	549.405	550.089	550.066
7.0	534.679	536.744	538.008	539.220	540.972	542.433	544.011	544.545	544.765
9.0	524.030	527.313	529.644	531.442	533.559	535.937	537.521	538.762	539.220
11.0	509.252	513.602	516.374	519.726	523.421	526.437	528.769	530.108	530.712
13.0	489.218	497.338	501.810	506.769	511.340	515.034	517.876	519.918	520.794
15.0	470.502	478.981	485.448	492.014	497.826	502.709	506.647	509.176	509.611

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CANDELA TABULATION - (Cont.)

17.0	444.199	453.554	462.550	471.012	478.378	484.259	488.952	492.182	493.278
19.5	412.670	423.655	434.890	445.608	455.062	463.205	469.116	473.054	474.655
22.5	368.892	383.107	396.871	410.217	422.199	431.851	439.263	444.199	446.264
25.5	322.242	339.062	355.395	371.293	385.271	396.674	405.229	410.942	413.059
29.0	266.087	284.757	302.795	321.778	337.873	351.335	361.549	368.039	370.324
33.0	206.480	226.026	245.085	264.045	280.888	295.063	305.834	312.927	315.532
37.5	150.110	166.762	184.504	202.397	217.709	233.247	244.354	251.621	254.318
42.5	99.859	113.668	127.890	142.448	156.646	169.650	179.400	185.844	188.251
47.5	65.122	74.750	85.666	97.283	108.518	119.213	127.403	132.727	135.111
55.0	33.257	38.605	44.776	51.829	58.708	65.221	70.789	74.484	75.893
65.0	13.879	16.095	18.693	21.634	24.720	27.811	30.409	32.161	32.869
75.0	5.348	6.177	7.099	8.242	9.361	10.504	11.449	12.157	12.400
85.0	0.876	1.166	1.386	1.607	1.752	1.943	2.117	2.187	2.239
90.0	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830
95.0	24.934	30.850	30.131	24.180	22.492	22.643	22.197	21.373	21.831
100.0	76.746	76.427	70.783	63.052	57.785	53.122	48.946	47.351	47.548
105.0	141.572	130.564	117.810	102.770	91.512	83.155	77.157	74.118	73.654
110.0	196.069	178.257	158.792	138.811	123.789	113.692	106.395	102.706	102.538
115.0	252.109	222.273	195.495	172.498	154.999	143.022	134.769	130.367	130.007
120.0	290.255	256.256	226.803	203.191	184.225	171.280	163.374	158.276	156.211
125.0	318.211	284.461	254.568	229.831	210.018	196.423	188.251	183.309	180.861
130.0	338.407	306.826	278.574	254.243	234.564	219.791	209.838	203.528	198.801
135.0	351.439	322.973	296.769	275.001	256.923	243.200	234.134	228.497	226.171
140.0	358.672	334.498	311.820	291.682	275.935	262.995	254.353	249.087	246.639
145.0	361.520	341.434	322.695	305.869	292.105	281.283	273.168	268.923	266.475
150.0	360.650	344.920	329.684	317.138	305.341	297.424	290.162	287.170	285.145
155.0	357.906	346.190	335.466	325.020	317.498	310.845	305.880	303.299	301.432
160.0	354.595	346.312	338.308	332.584	327.062	321.749	319.423	317.451	315.967
165.0	349.676	345.686	341.690	337.722	333.807	332.027	330.542	329.191	328.123
170.0	347.275	344.926	342.600	341.487	340.466	339.515	338.639	337.815	337.119
175.0	345.842	345.442	345.030	344.619	344.207	343.795	343.377	342.989	342.612
180.0	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	168.32	N.A.	7.90
0-30	306.42	N.A.	14.40
0-40	408.84	N.A.	19.20
0-60	521.00	N.A.	24.50
0-80	556.86	N.A.	26.20
0-90	561.57	N.A.	26.40
10-90	520.96	N.A.	24.50
20-40	240.52	N.A.	11.30
20-50	318.68	N.A.	15.00
40-70	136.94	N.A.	6.40
60-80	35.87	N.A.	1.70
70-80	11.08	N.A.	0.50
80-90	4.70	N.A.	0.20
90-110	156.83	N.A.	7.40
90-120	406.95	N.A.	19.10
90-130	718.91	N.A.	33.80
90-150	1257.68	N.A.	59.20
90-180	1563.56	N.A.	73.60
110-180	1406.73	N.A.	66.20
0-180	2125.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	40.61
10-20	127.71
20-30	138.10
30-40	102.42
40-50	78.15
50-60	34.00
60-70	24.79
70-80	11.08
80-90	4.70
90-100	29.39
100-110	127.43
110-120	250.12
120-130	311.96
130-140	297.13
140-150	241.65
150-160	171.82
160-170	100.92
170-180	33.14

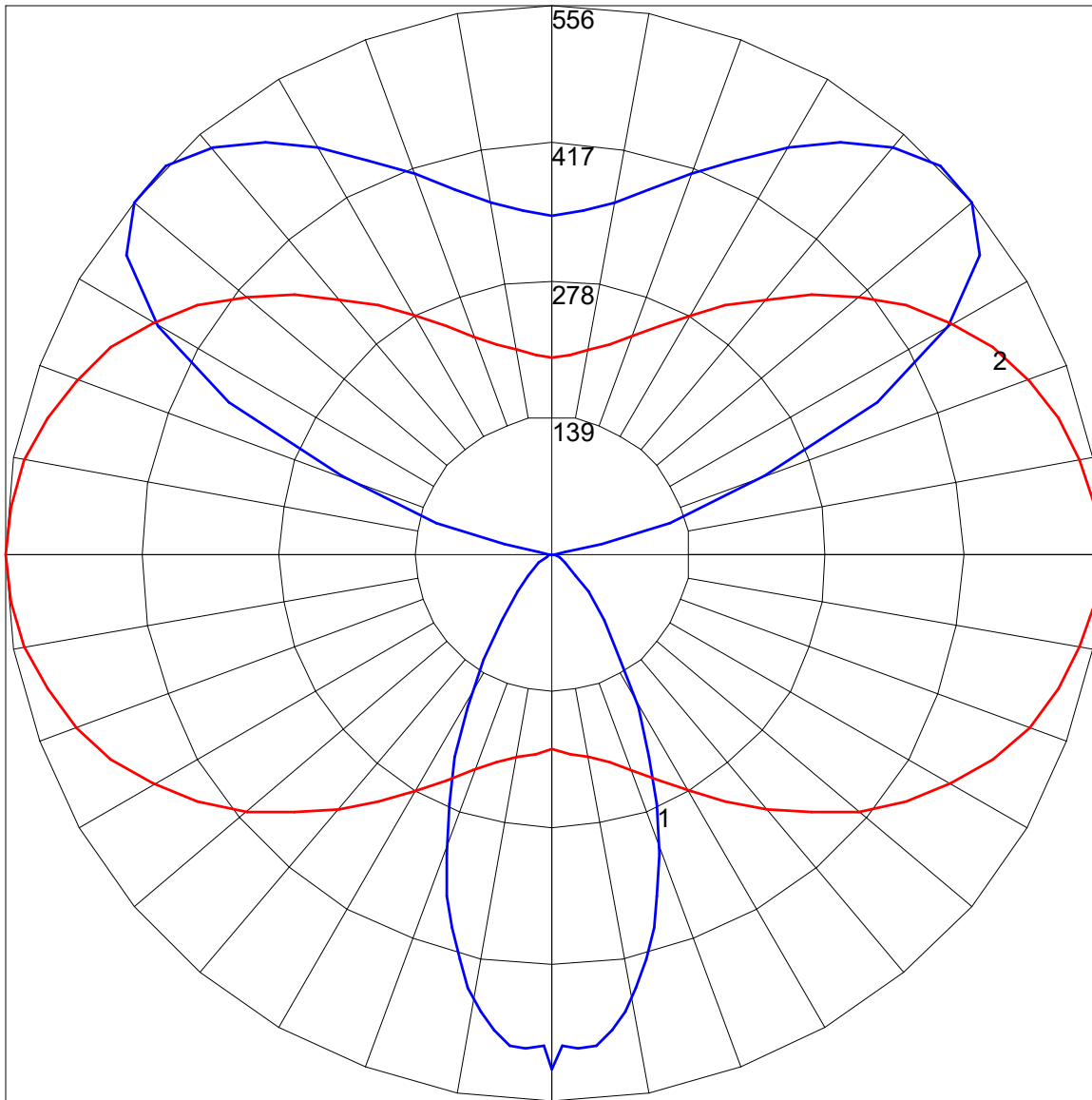
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	70	70	70	52	52	52	34	34	34	26
1	93	89	86	83	83	80	77	75	63	61	59	46	45	44	32	31	31	24
2	86	79	74	69	76	71	66	63	56	53	50	42	40	38	29	28	27	21
3	79	70	64	59	70	63	58	53	50	46	43	38	36	34	26	25	24	19
4	72	63	56	50	65	57	51	46	45	41	38	34	32	30	24	23	22	17
5	67	56	49	44	60	51	45	40	41	36	33	31	29	26	22	21	20	16
6	62	51	44	38	55	46	40	35	37	33	29	29	26	24	21	19	18	15
7	57	46	39	34	51	42	36	31	34	30	26	26	23	21	19	18	16	13
8	53	42	35	30	48	38	32	28	31	27	24	24	21	19	18	16	15	12
9	50	39	32	27	45	35	29	25	29	24	21	23	20	18	17	15	14	12
10	47	36	29	25	42	32	27	23	27	22	19	21	18	16	16	14	13	11

POLAR GRAPH



Maximum Candela = 555.901 Located At Horizontal Angle = 0, Vertical Angle = 130
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (130) (Through Max. Cd.)