

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	64	66	68	69
Total Lumens, 4' rail length (1219mm)	1908	1968	2008	2049
Lumens per foot (305mm)	477	492	502	512
Lumens per foot UP (305mm)	372	384	392	400
Lumens per foot DOWN (305mm)	105	108	111	113
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_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-LO-35-G1BB
[LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board,
[MORE] 120° batwing lens up with white polycarbonate reflectors/black baffle down, low output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2008
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
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	181	516	600
55	141	128	316
65	92	62	178
75	55	45	138
85	20	25	168

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	559.729	559.729	559.729	559.729	559.729	559.729	559.729	559.729	559.729	559.729
5	557.612	550.983	544.400	537.996	531.709	525.619	519.773	514.211	508.973	504.101
10	550.820	537.509	524.500	511.751	499.426	487.606	476.772	468.431	460.891	453.943
15	540.079	520.370	501.224	482.508	465.183	451.803	439.246	427.622	417.008	401.992
20	524.912	499.693	475.345	452.406	433.527	415.761	396.998	371.061	346.939	324.858
25	504.873	473.964	444.071	420.216	398.251	369.570	336.151	304.030	284.873	267.363
30	480.843	445.608	412.780	385.033	352.182	312.742	280.134	254.423	229.506	198.482
35	444.628	404.637	369.443	336.939	288.399	250.833	221.392	188.030	153.526	128.012
40	201.074	185.820	176.419	171.576	166.663	168.739	144.055	115.646	100.033	77.407
45	13.004	20.004	33.768	43.436	42.827	39.069	50.460	46.957	41.110	29.621
50	11.559	11.362	11.026	10.626	10.098	11.855	11.026	12.574	13.236	13.439
55	10.742	10.388	9.738	8.909	8.033	7.453	6.838	6.989	7.279	7.639
60	9.872	9.413	8.538	7.523	6.670	5.916	5.458	5.081	5.000	5.005
65	7.227	7.111	6.699	6.044	5.504	5.023	4.617	4.251	3.950	3.747
70	5.684	5.446	5.232	5.005	4.663	4.321	3.985	3.654	3.352	3.097
75	4.333	4.135	4.298	4.135	3.921	3.625	3.341	3.080	2.830	2.610
80	3.468	3.410	3.393	3.283	3.103	2.906	2.691	2.482	2.279	2.117
85	1.543	1.821	1.850	1.804	1.746	1.705	1.618	1.595	1.496	1.409
90	0.539	0.557	0.557	0.557	0.580	0.557	0.557	0.557	0.528	0.528
95	20.422	25.532	25.253	26.071	26.987	27.631	29.806	29.737	29.041	29.545
100	85.103	78.787	80.202	80.527	80.695	80.463	80.104	79.593	77.047	74.484
105	148.051	139.855	140.087	140.598	140.140	139.554	138.661	136.805	133.586	127.530
110	214.658	211.822	204.647	203.099	204.137	202.055	199.247	199.131	191.336	182.839
115	283.672	283.875	278.754	273.290	270.529	269.567	266.783	261.829	254.777	241.825
120	350.662	350.395	349.647	346.156	341.028	336.452	331.667	325.861	313.438	296.212
125	412.693	411.800	410.895	408.923	406.342	399.962	394.713	381.072	366.786	346.811
130	466.007	464.992	462.973	459.557	455.573	449.193	439.501	426.068	407.688	383.136
135	508.150	507.239	504.530	500.204	494.241	487.107	474.011	460.311	437.511	413.818
140	538.205	536.807	533.269	527.875	520.927	512.465	497.733	479.846	458.571	430.430
145	554.816	552.978	548.767	542.457	533.246	522.354	508.776	487.200	464.824	438.776
150	553.616	551.412	547.172	539.174	529.030	516.560	501.799	482.496	460.543	436.943
155	531.268	529.128	525.468	517.720	508.097	495.987	481.835	466.720	447.696	428.208
160	493.458	491.968	488.285	483.024	474.544	464.893	453.873	440.777	426.990	414.079
165	447.128	446.101	443.613	440.458	436.108	429.658	422.547	414.851	406.644	397.393
170	405.565	405.043	403.895	402.491	400.716	398.593	396.134	392.538	388.745	384.760
175	379.656	379.465	379.256	378.833	378.444	378.003	377.516	376.983	376.408	375.794
180	371.200	371.200	371.200	371.200	371.200	371.200	371.200	371.200	371.200	371.200

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>
0	559.729	559.729	559.729	559.729	559.729	559.729	559.729	559.729	559.729
5	499.629	495.593	492.020	488.940	486.382	484.358	482.282	481.858	481.707
10	447.644	442.030	437.129	432.280	428.249	425.076	422.785	421.167	420.883
15	386.489	371.855	358.805	347.443	337.862	330.426	325.160	321.506	321.187
20	308.653	297.314	287.216	277.147	269.085	263.001	258.929	256.314	256.360
25	251.627	230.962	210.557	193.152	178.246	166.622	158.172	151.815	150.649
30	168.734	143.991	130.894	119.782	110.664	103.304	98.078	92.910	91.072
35	108.959	92.092	75.876	61.318	48.569	38.512	31.407	26.970	25.334
40	55.013	34.249	26.361	23.867	21.622	19.929	18.885	18.270	18.061
45	23.362	19.894	18.003	16.507	15.202	14.036	13.189	12.690	12.569
50	13.833	13.033	12.139	11.304	10.440	9.587	8.949	8.543	8.381
55	8.149	8.079	7.929	7.528	6.977	6.432	5.980	5.667	5.493
60	5.110	5.092	5.075	4.930	4.634	4.292	3.985	3.735	3.613

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CANDELA TABULATION - (Cont.)

65	3.625	3.503	3.468	3.352	3.144	2.917	2.720	2.500	2.361
70	2.871	2.703	2.587	2.448	2.268	2.117	1.949	1.757	1.688
75	2.384	2.187	2.030	1.879	1.711	1.560	1.409	1.276	1.206
80	1.920	1.734	1.607	1.462	1.311	1.154	1.067	0.963	0.870
85	1.340	1.270	1.189	1.114	0.980	0.876	0.748	0.702	0.673
90	0.528	0.505	0.435	0.435	0.435	0.435	0.336	0.336	0.336
95	27.028	23.995	21.332	19.053	16.652	15.341	14.813	14.587	14.355
100	69.484	62.350	55.819	50.936	47.403	45.704	45.594	45.402	44.451
105	118.511	106.830	94.853	84.674	78.845	75.707	73.979	73.556	73.979
110	170.793	154.373	137.831	124.143	115.014	110.357	108.385	106.598	106.482
115	223.526	199.155	179.516	163.108	150.922	143.973	140.580	138.637	138.081
120	274.816	247.886	219.832	199.253	185.055	176.262	171.489	169.354	169.575
125	317.585	286.764	257.015	231.977	214.443	203.128	197.067	194.810	194.091
130	354.687	321.198	290.203	263.935	244.139	232.209	224.918	221.212	220.435
135	380.567	348.133	316.715	291.131	270.947	257.120	249.522	245.323	243.890
140	400.478	368.381	338.917	313.159	294.211	279.560	271.544	267.200	265.756
145	409.944	382.000	355.250	332.224	314.366	301.281	292.395	288.109	285.888
150	412.798	388.710	365.823	347.316	330.542	320.328	311.164	307.765	305.440
155	408.767	390.044	372.818	356.369	345.251	335.663	328.744	325.508	323.112
160	400.745	386.935	373.682	364.594	355.888	347.437	344.288	341.550	339.393
165	388.936	382.087	375.283	368.549	361.775	359.037	356.590	354.281	352.298
170	380.619	376.350	372.064	370.237	368.486	366.804	365.197	363.660	362.268
175	375.156	374.483	373.793	373.085	372.372	371.647	370.904	370.197	369.495
180	371.200	371.200	371.200	371.200	371.200	371.200	371.200	371.200	371.200

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	161.76	N.A.	8.10
0-30	294.05	N.A.	14.60
0-40	396.34	N.A.	19.70
0-60	433.24	N.A.	21.60
0-80	440.52	N.A.	21.90
0-90	441.98	N.A.	22.00
10-90	394.36	N.A.	19.60
20-40	234.59	N.A.	11.70
20-50	264.28	N.A.	13.20
40-70	41.26	N.A.	2.10
60-80	7.28	N.A.	0.40
70-80	2.91	N.A.	0.10
80-90	1.46	N.A.	0.10
90-110	152.54	N.A.	7.60
90-120	369.61	N.A.	18.40
90-130	653.20	N.A.	32.50
90-150	1219.73	N.A.	60.70
90-180	1566.52	N.A.	78.00
110-180	1413.97	N.A.	70.40
0-180	2008.5	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.62
10-20	114.14
20-30	132.30
30-40	102.29
40-50	29.69
50-60	7.21
60-70	4.36
70-80	2.91
80-90	1.46
90-100	30.96
100-110	121.58
110-120	217.07
120-130	283.59
130-140	299.70
140-150	266.82
150-160	197.11
160-170	113.57
170-180	36.11

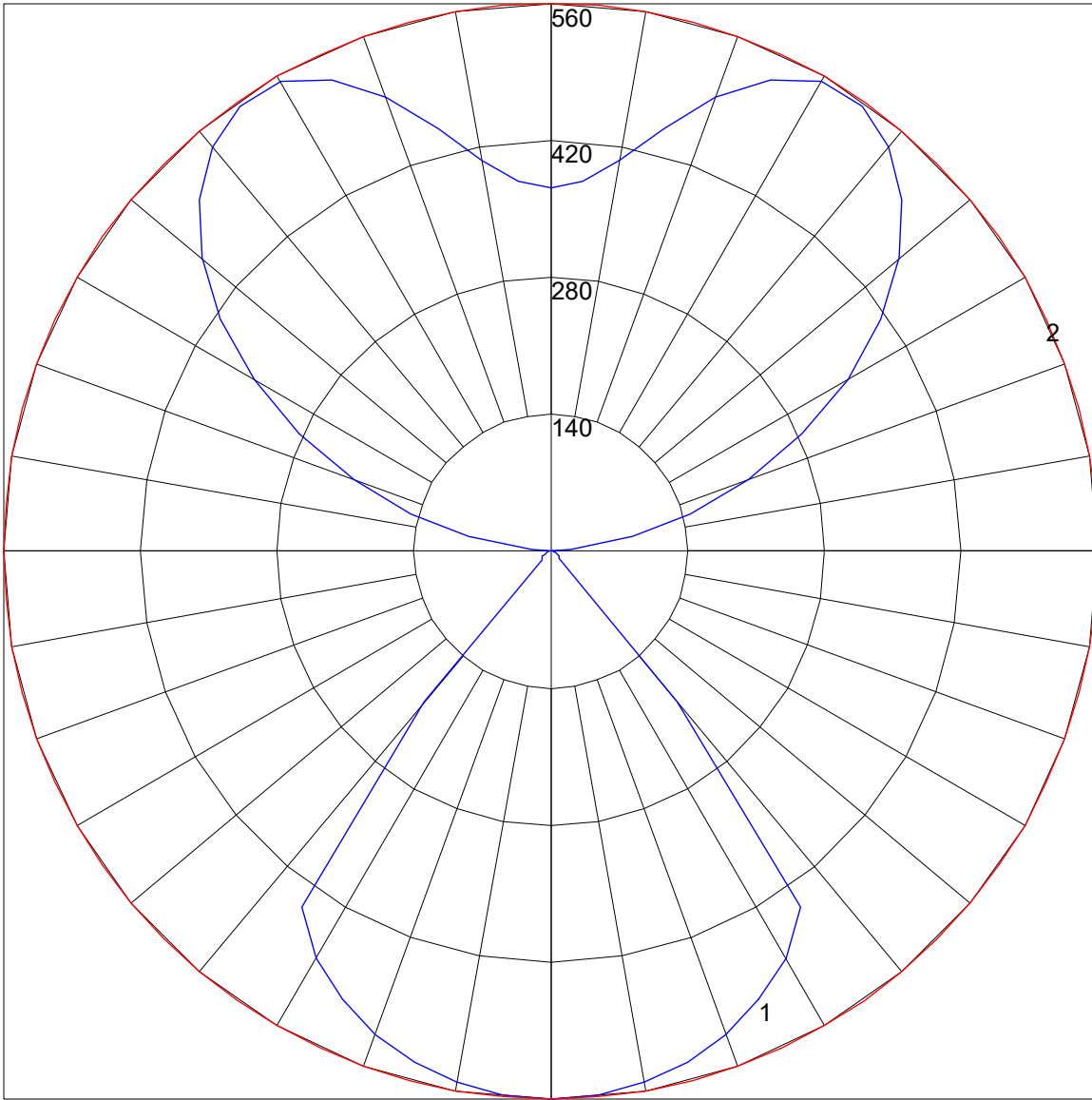
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	101	89	89	89	89	68	68	68	48	48	48	30	30	30	22
1	92	89	85	82	82	79	76	74	61	59	57	44	43	42	28	28	27	20
2	85	79	73	69	75	70	66	62	54	52	49	40	38	37	26	25	25	19
3	78	70	64	59	70	63	58	53	49	46	43	36	34	32	24	23	23	17
4	72	63	56	51	64	56	51	46	44	40	37	33	31	29	23	21	21	16
5	67	57	50	44	59	51	45	41	40	36	33	30	28	26	21	20	19	15
6	62	51	44	39	55	46	40	36	37	33	30	28	25	23	20	18	17	14
7	57	47	40	35	51	42	36	32	34	30	26	26	23	21	18	17	16	13
8	53	43	36	31	48	39	33	29	31	27	24	24	21	19	17	16	15	12
9	50	39	32	28	45	36	30	26	29	25	22	22	20	18	16	15	14	11
10	47	36	30	25	42	33	27	23	27	23	20	21	18	16	15	14	13	11

POLAR GRAPH



Maximum Candela = 559.729 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.)