

IES Report

DoubleBox™ | 107 | 120° Batwing, up | 120° FlyWing™, down | 80 CRI | SO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-G1G2-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	119	122	125	127
Total Lumens, 4' rail length (1219mm)	5688	5867	5987	6107
Lumens per foot (305mm)	1422	1467	1497	1527
Lumens per foot UP (305mm)	711	734	749	763
Lumens per foot DOWN (305mm)	711	734	749	763
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_G1G2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L011800106 (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-SO-35-G1G2
[LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board,
[MORE] 120° batwing lens up with white polycarbonate reflectors/120° flywing lens down, standard output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5987
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	48.25
Ballast Factor	1.00
CIE Type	General Diffuse
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	13207	13904	23621
55	9829	10842	22197
65	6080	7007	20407
75	2649	3312	16215
85	365	644	6405

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	836.372	836.372	836.372	836.372	836.372	836.372	836.372	836.372	836.372	836.372
5	850.384	849.816	849.224	848.296	847.415	846.452	845.408	844.306	843.134	841.928
10	889.778	888.548	886.391	883.827	880.695	877.041	872.854	866.416	859.722	852.751
15	944.832	942.952	939.148	934.426	927.896	917.769	906.702	894.801	882.157	867.170
20	999.688	997.090	991.928	984.631	972.498	958.960	943.393	923.928	903.594	882.841
25	1039.267	1035.834	1030.799	1020.058	1007.042	990.095	969.992	948.880	920.170	890.370
30	1057.665	1054.196	1048.338	1037.411	1023.097	1004.943	983.587	955.654	923.812	888.340
35	1048.756	1045.612	1039.383	1030.405	1016.056	999.270	979.040	946.664	913.442	873.909
40	1011.775	1009.304	1003.725	994.886	983.599	969.957	946.432	918.685	886.101	843.227
45	949.402	947.778	943.358	935.737	925.854	914.405	893.049	871.520	835.107	798.428
50	862.379	860.384	856.799	851.602	845.234	834.469	819.285	797.628	767.468	728.561
55	750.833	749.140	747.400	744.929	741.344	729.141	721.102	699.828	677.196	646.549
60	620.368	619.382	617.445	609.464	602.121	593.874	587.041	580.360	561.800	537.242
65	477.711	478.326	467.480	457.492	455.103	453.235	450.962	443.967	435.545	420.651
70	333.233	328.292	317.109	317.040	321.842	322.816	322.492	319.058	309.546	300.568
75	207.570	195.321	198.105	200.019	200.088	201.573	201.933	199.636	199.323	194.091
80	106.581	99.226	101.628	102.208	102.799	103.646	104.586	105.119	105.247	105.572
85	27.689	30.670	29.719	30.137	31.216	32.144	32.097	34.638	34.614	35.682
90	1.682	1.740	1.786	1.786	1.833	1.786	1.833	1.786	1.786	1.833
95	27.689	30.670	29.719	30.137	31.216	32.144	32.097	34.638	34.614	35.682
100	106.581	99.226	101.628	102.208	102.799	103.646	104.586	105.119	105.247	105.572
105	207.570	195.321	198.105	200.019	200.088	201.573	201.933	199.636	199.323	194.091
110	333.233	328.292	317.109	317.040	321.842	322.816	322.492	319.058	309.546	300.568
115	477.711	478.326	467.480	457.504	455.103	453.235	450.962	443.967	435.545	420.651
120	620.368	619.382	617.445	609.464	602.121	593.874	587.041	580.360	561.800	537.242
125	750.833	749.140	747.400	744.929	741.344	729.153	721.102	699.828	677.196	646.549
130	862.379	860.384	856.799	851.602	845.234	834.469	819.285	797.628	767.468	728.561
135	949.402	947.778	943.358	935.737	925.854	914.405	893.049	871.520	835.107	798.428
140	1011.775	1009.304	1003.725	994.886	983.599	969.957	946.432	918.685	886.101	843.227
145	1048.756	1045.612	1039.383	1030.405	1016.056	999.270	979.040	946.664	913.442	873.909
150	1057.665	1054.196	1048.338	1037.411	1023.097	1004.943	983.587	955.654	923.812	888.340
155	1039.267	1035.834	1030.799	1020.058	1007.042	990.095	969.992	948.880	920.170	890.370
160	999.688	997.090	991.928	984.631	972.498	958.960	943.393	923.928	903.594	882.841
165	944.832	942.952	939.148	934.426	927.896	917.769	906.702	894.801	882.157	867.170
170	889.778	888.548	886.391	883.827	880.695	877.041	872.854	866.416	859.722	852.751
175	850.384	849.816	849.224	848.296	847.415	846.452	845.408	844.306	843.134	841.928
180	836.360	836.360	836.360	836.360	836.360	836.360	836.360	836.360	836.360	836.360

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	836.372	836.372	836.372	836.372	836.372	836.372	836.372	836.372	836.372
5	840.675	839.388	838.088	836.778	835.467	834.168	832.834	831.604	830.398
10	845.570	838.228	830.908	827.370	824.029	820.897	817.962	815.202	812.824
15	852.670	839.944	827.335	814.946	802.569	796.862	791.804	787.164	783.441
20	860.511	837.044	814.355	796.584	779.555	763.083	756.042	749.928	745.439
25	860.500	829.377	798.950	769.730	747.516	727.877	713.330	705.698	700.315
30	850.640	812.104	774.138	739.755	708.052	685.572	665.202	657.012	651.723
35	829.609	786.016	741.112	700.176	664.866	637.165	616.378	605.636	599.604
40	797.488	746.912	697.763	651.827	614.719	584.501	564.711	552.531	546.488
45	746.692	695.896	644.160	597.876	559.282	530.306	511.514	499.798	494.520
50	683.136	631.342	581.102	536.152	498.591	473.419	455.810	444.860	440.719
55	600.033	552.960	506.363	464.267	430.522	409.004	396.001	387.962	385.480
60	501.642	458.455	420.465	390.096	366.096	349.984	339.845	333.523	331.783

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CANDELA TABULATION - (Cont.)

65	394.319	364.843	338.569	314.604	296.020	283.504	276.463	272.345	270.767
70	285.580	268.679	250.050	233.763	222.500	214.693	211.050	208.301	207.628
75	186.226	176.575	165.091	154.025	148.062	145.313	141.764	140.267	142.170
80	101.662	95.329	89.111	84.703	82.638	85.898	85.214	84.054	83.462
85	33.953	31.645	30.067	28.733	26.993	26.320	24.836	24.894	25.624
90	1.740	1.740	1.786	1.740	1.682	1.636	1.786	1.740	1.636
95	33.953	31.645	30.067	28.733	26.993	26.320	24.836	24.894	25.624
100	101.662	95.329	89.111	84.703	82.638	85.898	85.214	84.054	83.462
105	186.226	176.575	165.091	154.025	148.062	145.313	141.764	140.267	142.170
110	285.580	268.679	250.050	233.763	222.500	214.693	211.050	208.301	207.628
115	394.319	364.843	338.569	314.604	296.020	283.504	276.463	272.345	270.767
120	501.642	458.455	420.465	390.096	366.096	349.984	339.845	333.523	331.783
125	600.033	552.960	506.363	464.267	430.522	409.004	396.001	387.962	385.480
130	683.136	631.342	581.102	536.152	498.591	473.419	455.810	444.860	440.719
135	746.704	695.896	644.160	597.876	559.282	530.306	511.514	499.798	494.520
140	797.488	746.912	697.763	651.827	614.719	584.501	564.711	552.531	546.488
145	829.609	786.016	741.112	700.176	664.866	637.165	616.378	605.636	599.604
150	850.640	812.104	774.138	739.755	708.052	685.572	665.202	657.012	651.723
155	860.500	829.377	798.950	769.730	747.516	727.877	713.330	705.698	700.315
160	860.511	837.044	814.355	796.584	779.555	763.083	756.042	749.928	745.439
165	852.670	839.944	827.335	814.946	802.569	796.862	791.804	787.164	783.441
170	845.570	838.228	830.908	827.370	824.029	820.897	817.962	815.202	812.824
175	840.675	839.388	838.088	836.778	835.467	834.168	832.834	831.604	830.398
180	836.360	836.360	836.360	836.360	836.360	836.360	836.360	836.360	836.360

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	326.24	N.A.	5.40
0-30	732.00	N.A.	12.20
0-40	1261.08	N.A.	21.10
0-60	2373.06	N.A.	39.60
0-80	2950.34	N.A.	49.30
0-90	2993.51	N.A.	50.00
10-90	2912.87	N.A.	48.70
20-40	934.83	N.A.	15.60
20-50	1514.71	N.A.	25.30
40-70	1495.85	N.A.	25.00
60-80	577.28	N.A.	9.60
70-80	193.41	N.A.	3.20
80-90	43.17	N.A.	0.70
90-110	236.59	N.A.	4.00
90-120	620.46	N.A.	10.40
90-130	1152.56	N.A.	19.30
90-150	2261.52	N.A.	37.80
90-180	2993.52	N.A.	50.00
110-180	2756.93	N.A.	46.00
0-180	5987.03	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	80.64
10-20	245.60
20-30	405.75
30-40	529.08
40-50	579.88
50-60	532.10
60-70	383.87
70-80	193.41
80-90	43.17
90-100	43.17
100-110	193.41
110-120	383.87
120-130	532.10
130-140	579.88
140-150	529.08
150-160	405.75
160-170	245.60
170-180	80.64

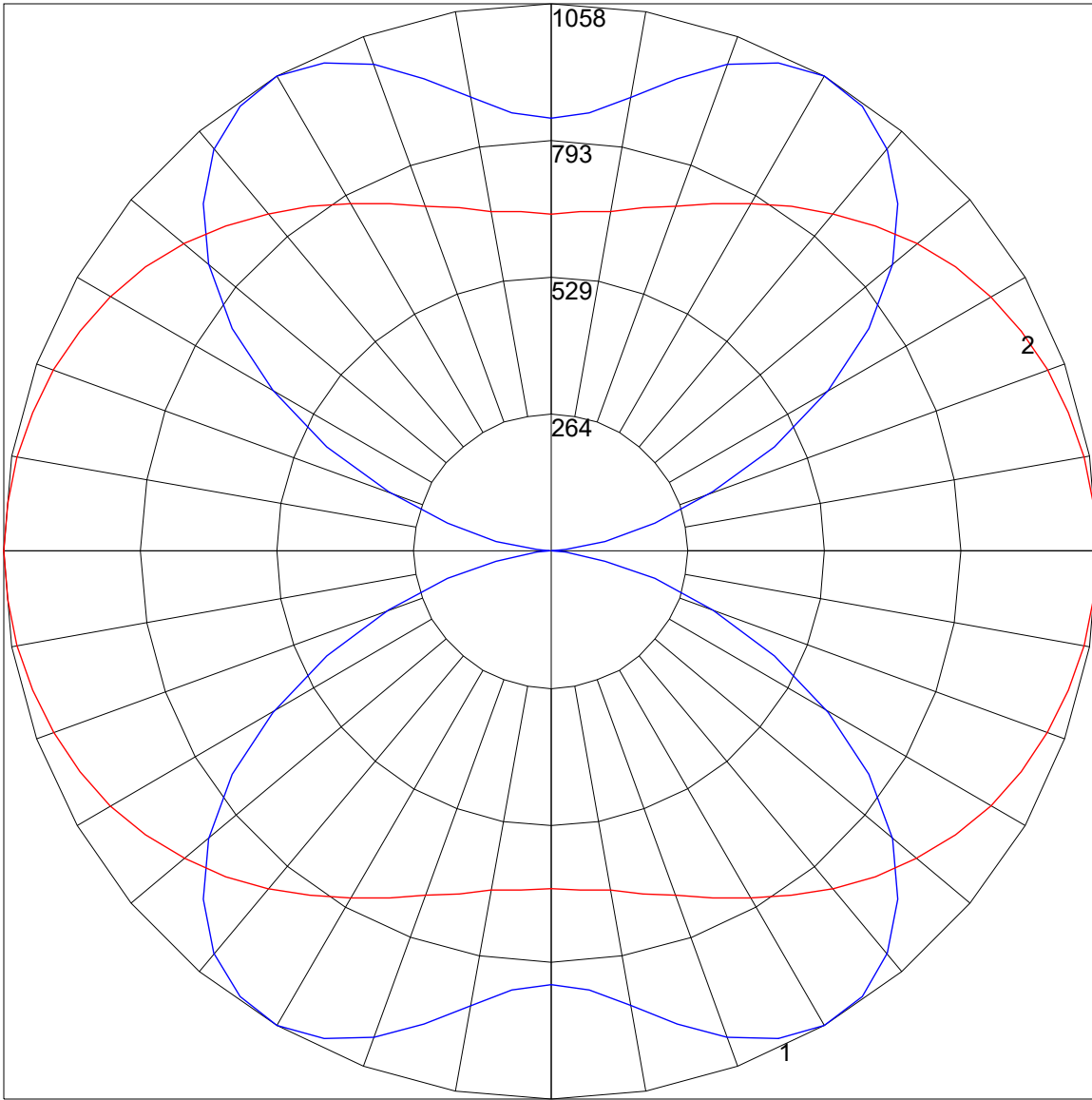
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	89	86	90	86	83	80	73	70	68	61	59	57	49	48	47	42
2	89	81	75	70	82	75	70	65	64	60	56	53	50	47	43	41	39	35
3	81	71	64	58	74	66	59	54	56	51	47	47	43	40	38	35	33	29
4	74	63	55	48	68	58	51	45	49	44	39	41	37	34	34	31	28	24
5	67	56	47	41	62	52	44	39	44	38	34	37	32	29	30	27	24	21
6	62	50	41	35	57	46	39	33	39	34	29	33	29	25	27	24	21	18
7	57	45	37	31	52	41	34	29	35	30	25	30	25	22	25	21	19	16
8	53	40	32	27	49	38	30	26	32	27	22	27	23	19	22	19	16	14
9	49	37	29	24	45	34	27	23	29	24	20	25	20	17	21	17	15	13
10	46	34	26	21	42	31	25	20	27	22	18	23	19	16	19	16	13	11

POLAR GRAPH



Maximum Candela = 1057.665 Located At Horizontal Angle = 0, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)