

IES Report

DoubleBox™ | 107 | Wide Batwing, up | White Baffle, down | 80 CRI | SO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-G1WB-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	100	103	105	105
Total Lumens, 4' rail length (1219mm)	4758	4909	5009	5009
Lumens per foot (305mm)	1190	1227	1252	1252
Lumens per foot UP (305mm)	743	766	782	782
Lumens per foot DOWN (305mm)	447	461	470	470
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.



IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DB_SO_35_G1WB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L022010902 / L121911507 (SOURCE REPORTS FOR REFERENCE)
 [TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB
 [ISSUE DATE] 3/18/20
 [MANUFAC] Vode Lighting
 [LUMCAT] 107-DB-48-Z-SO-35-G1WB-AL
 [LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board, wide batwing lens up /
 [MORE] white 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	5009
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
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	2510	5753	13068
55	1730	2872	10132
65	1300	1540	7961
75	412	594	5212
85	91	104	1638

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	1421.000	1421.000	1421.000	1421.000	1421.000	1421.000	1421.000	1421.000	1421.000	1421.000
5	1417.520	1416.360	1415.200	1412.880	1411.720	1408.240	1404.760	1401.280	1398.960	1396.640
10	1403.600	1402.440	1395.480	1388.520	1381.560	1376.920	1368.800	1358.360	1347.920	1334.000
15	1379.240	1374.600	1364.160	1353.720	1340.960	1321.240	1295.720	1270.200	1243.520	1218.000
20	1340.960	1332.840	1320.080	1302.680	1272.520	1234.240	1195.960	1158.840	1125.200	1098.520
25	1286.440	1274.840	1258.600	1224.960	1178.560	1129.840	1084.600	1049.800	1013.840	968.600
30	1224.960	1212.200	1185.520	1134.480	1075.320	1019.640	979.040	918.720	856.080	798.080
35	1144.920	1129.840	1090.400	1028.920	966.280	916.400	843.320	766.760	700.640	644.960
40	756.320	758.640	765.600	776.040	786.480	745.880	683.240	618.280	534.760	452.400
45	177.480	185.600	204.160	228.520	269.120	337.560	392.080	394.400	352.640	321.320
50	136.880	141.520	149.640	158.920	170.520	185.600	204.160	221.560	230.840	235.480
55	131.080	133.400	138.040	142.680	149.640	157.760	165.880	167.040	167.040	168.200
60	121.800	122.960	121.800	121.800	121.800	124.120	125.280	125.280	125.280	125.280
65	102.080	100.920	97.440	93.960	91.640	90.480	90.480	90.480	90.480	91.640
70	63.800	62.640	62.640	60.320	59.160	58.000	58.000	59.160	59.160	60.320
75	32.480	32.480	32.480	31.320	31.320	31.320	32.480	32.480	33.640	34.800
80	16.240	16.240	15.080	15.080	15.080	15.080	15.080	15.080	15.080	16.240
85	6.960	6.960	6.960	6.960	6.960	6.960	6.960	6.960	5.800	5.800
90	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661
95	26.355	32.422	30.589	31.285	32.341	34.116	34.997	42.027	46.040	49.138
100	101.802	106.848	109.365	114.573	121.278	128.424	136.660	143.620	152.923	153.735
105	244.354	227.604	243.577	249.957	257.242	269.143	278.168	285.778	292.981	291.137
110	455.555	440.568	442.076	451.704	467.271	468.106	484.312	472.375	460.427	431.833
115	728.689	725.696	699.990	686.755	680.537	676.756	658.196	632.154	599.105	558.192
120	927.339	921.539	908.767	884.744	862.680	831.813	799.043	761.853	704.607	644.670
125	1056.563	1049.812	1034.140	1014.339	989.584	942.883	900.740	839.678	778.476	709.560
130	1111.802	1105.840	1088.753	1062.896	1031.402	989.480	936.224	878.445	812.360	744.418
135	1111.210	1106.188	1090.214	1065.077	1030.312	990.025	939.101	886.310	825.282	764.336
140	1075.239	1070.112	1055.623	1033.096	1003.156	965.944	921.980	874.118	822.939	770.344
145	1018.445	1013.875	1002.298	984.399	959.030	928.151	892.144	851.254	808.833	765.554
150	952.325	948.196	939.728	925.135	905.670	881.078	852.171	820.816	788.800	753.988
155	883.676	880.672	875.069	863.910	849.828	831.813	810.620	787.860	764.220	740.300
160	819.111	817.522	812.928	806.629	796.607	785.181	772.050	756.262	739.697	724.861
165	763.790	762.619	759.719	756.297	751.657	744.732	737.041	728.631	719.571	709.085
170	722.460	721.822	720.418	718.852	716.915	714.641	712.031	707.902	703.621	699.155
175	697.670	697.369	697.125	696.394	695.849	695.258	694.620	693.935	693.216	692.462
180	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>
0	1421.000	1421.000	1421.000	1421.000	1421.000	1421.000	1421.000	1421.000	1421.000
5	1394.320	1393.160	1392.000	1390.840	1388.520	1388.520	1387.360	1386.200	1386.200
10	1321.240	1309.640	1298.040	1287.600	1279.480	1272.520	1267.880	1264.400	1263.240
15	1195.960	1175.080	1157.680	1142.600	1132.160	1122.880	1117.080	1114.760	1113.600
20	1075.320	1052.120	1026.600	999.920	979.040	960.480	947.720	939.600	937.280
25	921.040	878.120	841.000	808.520	785.320	766.760	754.000	747.040	744.720
30	749.360	712.240	672.800	629.880	592.760	563.760	544.040	531.280	527.800
35	576.520	513.880	461.680	423.400	399.040	383.960	374.680	368.880	366.560
40	393.240	359.600	339.880	327.120	316.680	308.560	303.920	300.440	299.280
45	301.600	286.520	274.920	264.480	257.520	251.720	247.080	244.760	243.600
50	233.160	225.040	218.080	211.120	206.480	201.840	199.520	197.200	196.040
55	170.520	170.520	168.200	165.880	163.560	160.080	158.920	157.760	156.600
60	126.440	126.440	126.440	126.440	126.440	125.280	124.120	124.120	122.960

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PHOTOMETRIC FILENAME : VODE_107_DB_SO_35_G1WB.IES

CANDELA TABULATION - (Cont.)

65	91.640	92.800	93.960	93.960	93.960	95.120	93.960	93.960	93.960
70	61.480	62.640	63.800	64.960	64.960	66.120	66.120	66.120	66.120
75	35.960	37.120	38.280	39.440	40.600	40.600	41.760	41.760	40.600
80	16.240	17.400	18.560	18.560	19.720	19.720	20.880	20.880	19.720
85	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800	5.800
90	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661
95	49.868	61.700	60.262	48.360	44.985	45.286	44.393	42.746	43.662
100	153.491	152.853	141.566	126.104	115.571	106.244	97.892	94.702	95.097
105	283.144	261.128	235.619	205.540	183.025	166.309	154.315	148.236	147.308
110	392.138	356.514	317.585	277.623	247.579	227.383	212.790	205.413	205.076
115	504.217	444.547	390.990	344.996	309.998	286.044	269.538	260.733	260.014
120	580.510	512.511	453.606	406.383	368.451	342.560	326.749	316.552	312.423
125	636.422	568.922	509.136	459.662	420.036	392.846	376.501	366.618	361.723
130	676.814	613.652	557.148	508.486	469.127	439.582	419.676	407.056	397.602
135	702.879	645.946	593.537	550.002	513.845	486.400	468.269	456.994	452.342
140	717.344	668.995	623.639	583.364	551.870	525.990	508.706	498.174	493.278
145	723.040	682.869	645.389	611.738	584.211	562.565	546.337	537.846	532.950
150	721.300	689.840	659.367	634.276	610.682	594.848	580.325	574.339	570.291
155	715.813	692.381	670.932	650.041	634.996	621.690	611.761	606.599	602.864
160	709.189	692.624	676.616	665.167	654.124	643.498	638.847	634.903	631.933
165	699.352	691.372	683.379	675.445	667.615	664.054	661.084	658.381	656.247
170	694.550	689.852	685.200	682.973	680.932	679.029	677.278	675.630	674.238
175	691.685	690.884	690.061	689.237	688.414	687.590	686.755	685.978	685.224
180	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	477.51	N.A.	9.50
0-30	928.39	N.A.	18.50
0-40	1353.14	N.A.	27.00
0-60	1739.57	N.A.	34.70
0-80	1871.85	N.A.	37.40
0-90	1881.48	N.A.	37.60
10-90	1750.03	N.A.	34.90
20-40	875.63	N.A.	17.50
20-50	1119.3	N.A.	22.30
40-70	478.92	N.A.	9.60
60-80	132.28	N.A.	2.60
70-80	39.79	N.A.	0.80
80-90	9.63	N.A.	0.20
90-110	313.65	N.A.	6.30
90-120	813.90	N.A.	16.30
90-130	1437.81	N.A.	28.70
90-150	2515.37	N.A.	50.20
90-180	3127.12	N.A.	62.40
110-180	2813.47	N.A.	56.20
0-180	5008.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	131.45
10-20	346.06
20-30	450.88
30-40	424.75
40-50	243.67
50-60	142.76
60-70	92.50
70-80	39.79
80-90	9.63
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

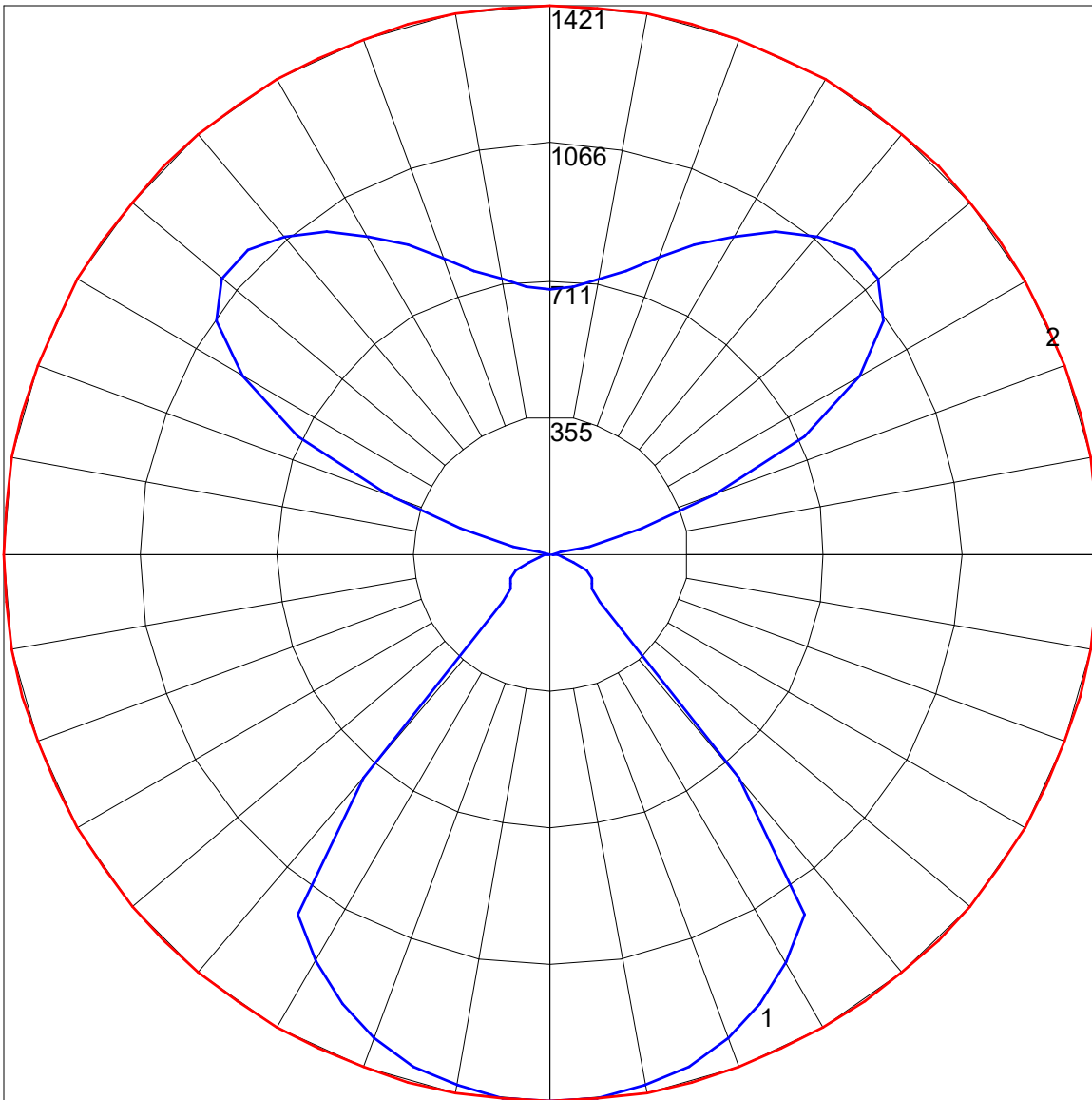
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DB_SO_35_G1WB.IES

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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	38
1	96	92	89	86	87	84	81	78	68	67	65	54	53	52	41	40	40	34
2	88	82	76	72	80	75	70	66	61	58	55	49	47	45	38	36	35	30
3	81	73	66	61	74	67	61	57	55	51	48	44	42	40	34	33	31	27
4	75	65	58	53	68	60	54	49	50	45	42	40	37	35	32	30	28	24
5	69	59	52	46	63	54	48	43	45	41	37	37	34	31	29	27	25	22
6	64	53	46	41	58	49	43	38	41	36	33	34	30	28	27	25	23	20
7	60	48	41	36	54	45	38	34	38	33	30	31	28	25	25	23	21	18
8	56	44	37	32	51	41	35	30	35	30	27	29	25	23	23	21	19	17
9	52	41	34	29	47	38	32	28	32	27	24	27	23	21	22	19	18	16
10	49	38	31	26	45	35	29	25	30	25	22	25	22	19	20	18	16	14

POLAR GRAPH



Maximum Candela = 1421 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.)