

IES Report

DoubleBox™ | 107 | 120° Batwing, up | 40° Symmetric down | 90 CRI | HO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-G1S1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	65	67	68	69
Total Lumens, 4' rail length (1219mm)	6305	6505	6637	6770
Lumens per foot (305mm)	1576	1626	1659	1693
Lumens per foot UP (305mm)	1143	1180	1204	1228
Lumens per foot DOWN (305mm)	433	447	456	465
Input Power (W), 4' rail length (1219mm)	98.44	98.44	98.44	98.44
Watts per foot (305mm)	24.7	24.7	24.7	24.7
CRI	96	96	96	96

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_HO_359_G1S1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L011800107 (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-HO-359-G1S1-BL
 [LUMINAIRE] DoubleBox LED, 48", 3500K, 90 CRI, zipper board,
 [MORE] 120° batwing lens up with white polycarbonate reflectors/40° black symmetric lens down, high output
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6637
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	98.44
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	872	2978	32217
55	373	1115	17068
65	193	475	8162
75	97	227	4117
85	25	34	1900

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	1936.1	1936.1	1936.1	1936.1	1936.1	1936.1	1936.1	1936.1	1936.1	1936.1
5	1852.5	1850.6	1850.6	1852.5	1852.5	1854.4	1858.2	1862.0	1865.8	1869.6
10	1607.4	1607.4	1611.2	1620.7	1632.1	1647.3	1664.4	1685.3	1708.1	1732.8
15	1267.3	1267.3	1278.7	1297.7	1322.4	1354.7	1394.6	1440.2	1491.5	1542.8
20	874.0	874.0	891.1	919.6	961.4	1014.6	1075.4	1134.3	1198.9	1265.4
25	543.4	551.0	573.8	606.1	651.7	697.3	746.7	807.5	879.7	963.3
30	319.2	323.0	338.2	372.4	406.6	440.8	478.8	533.9	606.1	678.3
35	182.4	184.3	195.7	216.6	239.4	262.2	288.8	338.2	385.7	450.3
40	100.7	104.5	112.1	123.5	136.8	150.1	174.8	205.2	241.3	290.7
45	62.7	64.6	68.4	74.1	79.8	87.4	106.4	123.5	148.2	171.0
50	41.8	41.8	43.7	47.5	49.4	57.0	66.5	76.0	89.3	108.3
55	28.5	28.5	30.4	32.3	34.2	38.0	41.8	47.5	57.0	66.5
60	20.9	20.9	20.9	22.8	24.7	26.6	28.5	32.3	38.0	43.7
65	15.2	15.2	15.2	17.1	17.1	19.0	20.9	22.8	24.7	28.5
70	11.4	11.4	11.4	13.3	13.3	13.3	15.2	15.2	17.1	19.0
75	7.6	7.6	7.6	9.5	9.5	9.5	9.5	11.4	11.4	13.3
80	1.9	3.8	3.8	3.8	3.8	3.8	5.7	5.7	5.7	7.6
85	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
90	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
95	72.2	76.0	76.0	77.9	79.8	83.6	89.3	89.3	87.4	85.5
100	258.4	239.4	243.2	243.2	243.2	241.3	241.3	243.2	233.7	224.2
105	454.1	423.7	425.6	429.4	427.5	427.5	423.7	416.1	408.5	391.4
110	666.9	655.5	627.0	625.1	628.9	627.0	623.2	611.8	590.9	560.5
115	883.5	881.6	860.7	837.9	830.3	824.6	820.8	805.6	786.6	750.5
120	1094.4	1092.5	1088.7	1077.3	1060.2	1045.0	1031.7	1014.6	978.5	925.3
125	1297.7	1293.9	1290.1	1284.4	1274.9	1254.0	1236.9	1193.2	1147.6	1083.0
130	1463.0	1461.1	1453.5	1444.0	1430.7	1411.7	1381.3	1335.7	1274.9	1195.1
135	1596.0	1592.2	1584.6	1569.4	1550.4	1527.6	1487.7	1444.0	1368.0	1290.1
140	1689.1	1683.4	1672.0	1654.9	1634.0	1605.5	1558.0	1499.1	1428.8	1337.6
145	1736.6	1730.9	1717.6	1698.6	1668.2	1632.1	1588.4	1518.1	1444.0	1358.5
150	1729.0	1721.4	1706.2	1681.5	1649.2	1607.4	1559.9	1497.2	1425.0	1345.2
155	1647.3	1641.6	1628.3	1603.6	1573.2	1533.3	1485.8	1436.4	1373.7	1307.2
160	1516.2	1512.4	1499.1	1482.0	1453.5	1423.1	1387.0	1343.3	1297.7	1254.0
165	1356.6	1352.8	1345.2	1333.8	1318.6	1297.7	1274.9	1250.2	1223.6	1191.3
170	1212.2	1210.3	1206.5	1202.7	1197.0	1197.0	1189.4	1179.9	1168.5	1157.1
175	1122.9	1121.0	1121.0	1119.1	1117.2	1117.2	1115.3	1113.4	1111.5	1109.6
180	1092.5	1092.5	1092.5	1092.5	1092.5	1092.5	1092.5	1092.5	1092.5	1092.5

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	1936.1	1936.1	1936.1	1936.1	1936.1	1936.1	1936.1	1936.1	1936.1
5	1873.4	1879.1	1884.8	1892.4	1898.1	1905.7	1913.3	1919.0	1926.6
10	1761.3	1789.8	1822.1	1833.5	1844.9	1858.2	1871.5	1886.7	1901.9
15	1586.5	1624.5	1666.3	1711.9	1763.2	1780.3	1799.3	1818.3	1841.1
20	1333.8	1407.9	1485.8	1540.9	1603.6	1670.1	1692.9	1717.6	1748.0
25	1054.5	1145.7	1240.7	1343.3	1419.3	1495.3	1554.2	1582.7	1615.0
30	769.5	879.7	988.0	1098.2	1210.3	1292.0	1379.4	1409.8	1447.8
35	535.8	630.8	735.3	839.8	955.7	1056.4	1145.7	1189.4	1225.5
40	343.9	427.5	509.2	598.5	701.1	801.8	883.5	936.7	969.0
45	214.7	264.1	328.7	406.6	486.4	571.9	630.8	663.1	674.5
50	131.1	163.4	207.1	258.4	313.5	374.3	423.7	459.8	482.6
55	81.7	100.7	125.4	157.7	193.8	231.8	266.0	288.8	296.4
60	51.3	62.7	77.9	96.9	119.7	144.4	165.3	172.9	180.5

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CANDELA TABULATION - (Cont.)

65	34.2	39.9	49.4	60.8	72.2	85.5	96.9	104.5	108.3
70	22.8	26.6	30.4	38.0	43.7	53.2	58.9	62.7	66.5
75	15.2	17.1	19.0	22.8	26.6	30.4	34.2	36.1	36.1
80	7.6	9.5	11.4	11.4	13.3	15.2	17.1	19.0	19.0
85	1.9	3.8	3.8	3.8	3.8	5.7	5.7	5.7	7.6
90	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
95	83.6	74.1	62.7	55.1	47.5	45.6	41.8	43.7	43.7
100	212.8	191.9	169.1	155.8	146.3	142.5	138.7	138.7	138.7
105	361.0	326.8	290.7	258.4	239.4	226.1	222.3	220.4	218.5
110	526.3	478.8	425.6	378.1	349.6	332.5	323.0	319.2	319.2
115	693.5	627.0	558.6	497.8	457.9	433.2	419.9	414.2	416.1
120	855.0	767.6	682.1	608.0	560.5	532.0	514.9	507.3	505.4
125	988.0	887.3	792.3	704.9	653.6	619.4	598.5	589.0	587.1
130	1103.9	993.7	891.1	803.7	737.2	693.5	665.0	649.8	646.0
135	1181.8	1075.4	970.9	883.5	815.1	771.4	744.8	729.6	723.9
140	1238.8	1132.4	1035.5	948.1	885.4	836.0	809.4	792.3	786.6
145	1261.6	1170.4	1081.1	1005.1	944.3	898.7	868.3	853.1	845.5
150	1263.5	1183.7	1107.7	1045.0	988.0	953.8	921.5	912.0	904.4
155	1240.7	1179.9	1122.9	1067.8	1029.8	997.5	972.8	961.4	953.8
160	1210.3	1162.8	1119.1	1088.7	1058.3	1029.8	1018.4	1008.9	999.4
165	1162.8	1140.0	1117.2	1094.4	1071.6	1062.1	1054.5	1046.9	1041.2
170	1130.5	1115.3	1100.1	1096.3	1090.6	1084.9	1079.2	1073.5	1069.7
175	1105.8	1103.9	1102.0	1100.1	1096.3	1094.4	1092.5	1088.7	1086.8
180	1092.5	1092.5	1092.5	1092.5	1092.5	1092.5	1092.5	1092.5	1092.5

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	602.04	N.A.	9.10
0-30	1072.15	N.A.	16.20
0-40	1435.53	N.A.	21.60
0-60	1754.35	N.A.	26.40
0-80	1818.86	N.A.	27.40
0-90	1823.47	N.A.	27.50
10-90	1648.51	N.A.	24.80
20-40	833.49	N.A.	12.60
20-50	1048.47	N.A.	15.80
40-70	364.46	N.A.	5.50
60-80	64.51	N.A.	1.00
70-80	18.87	N.A.	0.30
80-90	4.61	N.A.	0.10
90-110	464.94	N.A.	7.00
90-120	1133.53	N.A.	17.10
90-130	2013.75	N.A.	30.30
90-150	3764.92	N.A.	56.70
90-180	4813.8	N.A.	72.50
110-180	4348.86	N.A.	65.50
0-180	6637.27	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	174.96
10-20	427.08
20-30	470.11
30-40	363.38
40-50	214.98
50-60	103.84
60-70	45.64
70-80	18.87
80-90	4.61
90-100	93.67
100-110	371.27
110-120	668.59
120-130	880.22
130-140	928.59
140-150	822.58
150-160	601.23
160-170	340.86
170-180	106.79

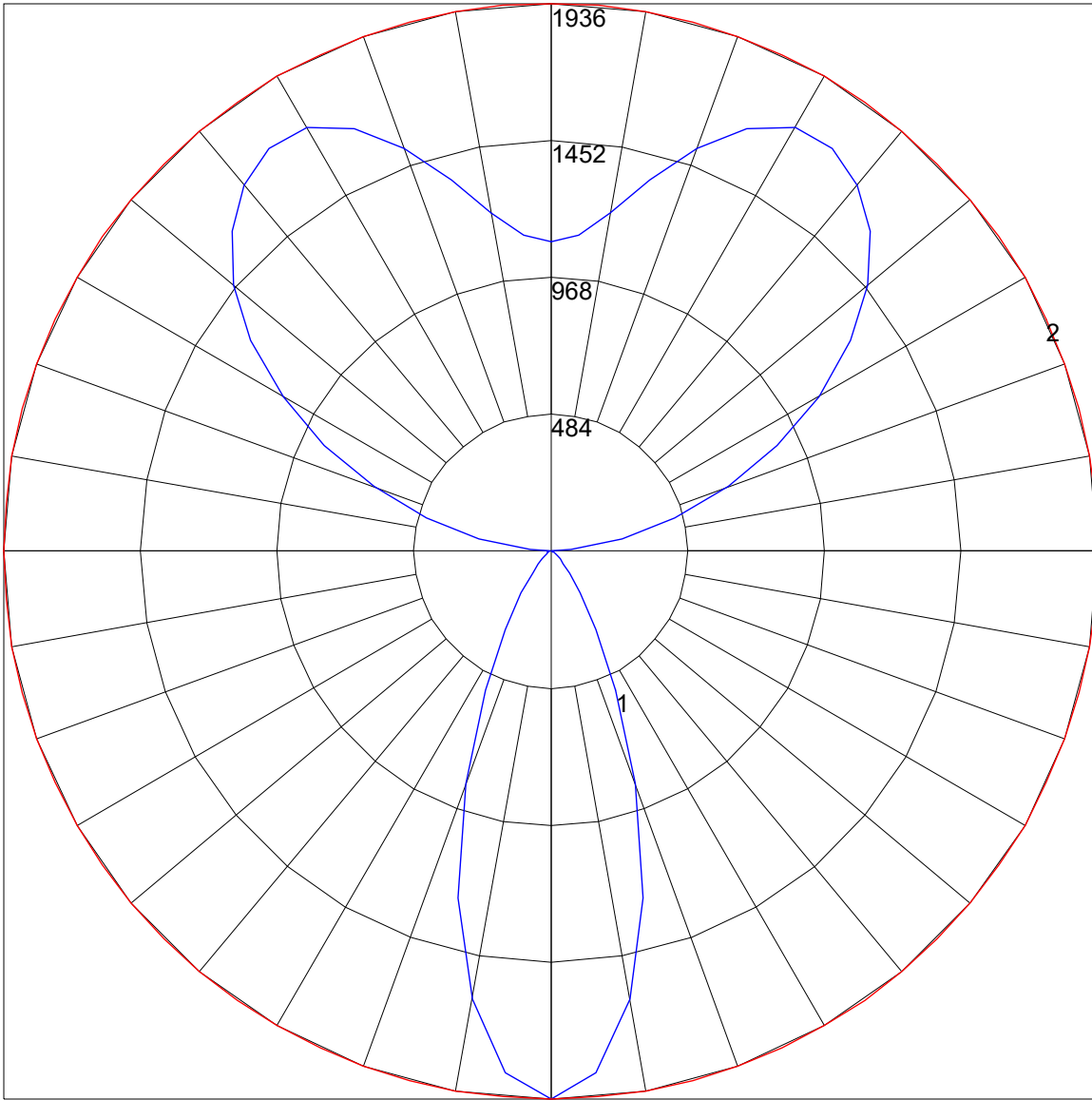
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	71	71	71	52	52	52	35	35	35	27
1	94	90	87	84	84	81	78	75	63	62	60	47	46	45	33	32	32	25
2	86	80	75	70	77	72	67	64	57	54	51	43	41	40	30	29	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	52	66	58	52	47	46	42	39	36	33	31	26	24	23	19
5	68	57	50	45	61	52	46	41	42	38	35	33	30	28	24	22	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	32	49	40	34	29	32	28	25	26	23	21	19	18	16	14
9	51	40	33	28	46	36	31	27	30	26	23	24	21	19	18	17	15	13
10	48	37	30	26	43	34	28	24	28	24	21	22	19	17	17	15	14	12

POLAR GRAPH



Maximum Candela = 1936.1 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.)