

IES Report

DoubleBox™ | 107 | 120° Batwing, up | White Baffle, down | 90 CRI | HO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-G1WB-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	75	77	78	80
Total Lumens, 4' rail length (1219mm)	7292	7522	7676	7829
Lumens per foot (305mm)	1823	1881	1919	1957
Lumens per foot UP (305mm)	1178	1215	1240	1264
Lumens per foot DOWN (305mm)	646	666	680	693
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_G1WB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L011800101 (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-HO-359-G1WB
 [LUMINAIRE] DoubleBox LED, 48", 3500K, 90 CRI, zipper board,
 [MORE] 120° batwing lens up with white polycarbonate reflectors/white baffle down, high output
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7676
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
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	3224	8305	17969
55	2562	4238	14004
65	1862	2247	11312
75	533	843	6718
85	125	171	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	2164.1	2164.1	2164.1	2164.1	2164.1	2164.1	2164.1	2164.1	2164.1	2164.1
5	2158.4	2148.9	2139.4	2129.9	2120.4	2110.9	2101.4	2093.8	2086.2	2078.6
10	2135.6	2114.7	2095.7	2076.7	2059.6	2042.5	2027.3	1998.8	1972.2	1949.4
15	2095.7	2067.2	2038.7	2012.1	1981.7	1936.1	1892.4	1854.4	1818.3	1782.2
20	2034.9	1996.9	1962.7	1922.8	1860.1	1803.1	1746.1	1691.0	1639.7	1592.2
25	1951.3	1905.7	1862.0	1793.6	1725.2	1654.9	1584.6	1520.0	1445.9	1377.5
30	1852.5	1801.2	1742.3	1654.9	1569.4	1487.7	1404.1	1316.7	1231.2	1149.5
35	1725.2	1668.2	1588.4	1491.5	1394.6	1297.7	1200.8	1098.2	999.4	900.6
40	792.3	779.0	782.8	826.5	910.1	1001.3	940.5	839.8	750.5	651.7
45	231.8	260.3	313.5	351.5	362.9	374.3	503.5	539.6	507.3	476.9
50	209.0	216.6	228.0	241.3	258.4	281.2	304.0	330.6	340.1	342.0
55	195.7	199.5	205.2	212.8	220.4	233.7	245.1	247.0	250.8	252.7
60	182.4	180.5	178.6	176.7	176.7	178.6	182.4	184.3	186.2	188.1
65	146.3	144.4	136.8	131.1	127.3	125.4	127.3	127.3	131.1	134.9
70	85.5	85.5	83.6	81.7	81.7	79.8	81.7	81.7	83.6	85.5
75	41.8	41.8	43.7	43.7	43.7	43.7	43.7	43.7	47.5	49.4
80	24.7	24.7	22.8	22.8	22.8	22.8	20.9	20.9	20.9	22.8
85	9.5	11.4	11.4	9.5	9.5	9.5	9.5	9.5	9.5	9.5
90	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
95	72.2	79.8	76.0	77.9	77.9	79.8	81.7	85.5	91.2	87.4
100	264.1	237.5	245.1	247.0	245.1	245.1	245.1	241.3	237.5	231.8
105	463.6	431.3	435.1	437.0	435.1	433.2	429.4	425.6	418.0	400.9
110	684.0	670.7	638.4	636.5	640.3	644.1	636.5	617.5	604.2	579.5
115	902.5	902.5	877.8	856.9	847.4	845.5	839.8	824.6	803.7	769.5
120	1117.2	1115.3	1111.5	1094.4	1077.3	1060.2	1046.9	1031.7	995.6	944.3
125	1314.8	1312.9	1309.1	1303.4	1293.9	1271.1	1254.0	1212.2	1168.5	1107.7
130	1485.8	1483.9	1476.3	1466.8	1453.5	1432.6	1402.2	1360.4	1301.5	1223.6
135	1622.6	1618.8	1609.3	1596.0	1578.9	1556.1	1514.3	1470.6	1396.5	1320.5
140	1719.5	1715.7	1704.3	1687.2	1664.4	1637.8	1588.4	1531.4	1463.0	1371.8
145	1774.6	1767.0	1753.7	1732.8	1704.3	1668.2	1624.5	1556.1	1483.9	1398.4
150	1768.9	1761.3	1746.1	1721.4	1689.1	1647.3	1601.7	1539.0	1468.7	1390.8
155	1694.8	1687.2	1675.8	1651.1	1618.8	1578.9	1533.3	1483.9	1421.2	1358.5
160	1569.4	1565.6	1552.3	1533.3	1506.7	1476.3	1440.2	1396.5	1350.9	1309.1
165	1417.4	1413.6	1404.1	1392.7	1379.4	1358.5	1333.8	1309.1	1282.5	1250.2
170	1278.7	1276.8	1273.0	1267.3	1261.6	1254.0	1244.5	1233.1	1219.8	1206.5
175	1189.4	1189.4	1187.5	1187.5	1185.6	1183.7	1181.8	1179.9	1178.0	1176.1
180	1160.9	1160.9	1160.9	1160.9	1160.9	1160.9	1160.9	1160.9	1160.9	1160.9

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	2164.1	2164.1	2164.1	2164.1	2164.1	2164.1	2164.1	2164.1	2164.1
5	2072.9	2067.2	2061.5	2057.7	2053.9	2050.1	2048.2	2048.2	2048.2
10	1926.6	1909.5	1892.4	1875.3	1862.0	1850.6	1843.0	1835.4	1835.4
15	1748.0	1715.7	1687.2	1664.4	1645.4	1628.3	1615.0	1605.5	1603.6
20	1544.7	1499.1	1461.1	1425.0	1394.6	1369.9	1350.9	1337.6	1333.8
25	1316.7	1259.7	1208.4	1164.7	1126.7	1096.3	1073.5	1052.6	1046.9
30	1073.5	1001.3	929.1	868.3	818.9	780.9	756.2	725.8	714.4
35	803.7	712.5	663.1	628.9	602.3	581.4	566.2	554.8	551.0
40	592.8	541.5	514.9	497.8	482.6	469.3	461.7	456.0	456.0
45	452.2	431.3	416.1	404.7	395.2	385.7	380.0	376.2	376.2
50	347.7	340.1	330.6	324.9	319.2	311.6	307.8	304.0	302.1
55	258.4	256.5	256.5	254.6	250.8	248.9	245.1	245.1	243.2
60	190.0	191.9	193.8	193.8	193.8	193.8	191.9	191.9	191.9

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CANDELA TABULATION - (Cont.)

65	136.8	142.5	142.5	142.5	142.5	146.3	152.0	150.1	150.1
70	89.3	91.2	95.0	96.9	96.9	98.8	100.7	98.8	98.8
75	51.3	53.2	55.1	57.0	58.9	58.9	60.8	58.9	58.9
80	24.7	24.7	26.6	26.6	28.5	28.5	28.5	28.5	28.5
85	9.5	9.5	9.5	9.5	9.5	7.6	9.5	7.6	7.6
90	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
95	81.7	74.1	64.6	58.9	53.2	49.4	45.6	45.6	45.6
100	218.5	195.7	176.7	161.5	152.0	146.3	142.5	140.6	142.5
105	372.4	338.2	300.2	269.8	247.0	237.5	235.6	231.8	228.0
110	541.5	492.1	437.0	393.3	362.9	345.8	338.2	336.3	334.4
115	706.8	636.5	571.9	514.9	475.0	452.2	440.8	435.1	433.2
120	877.8	790.4	701.1	627.0	579.5	552.9	537.7	530.1	528.2
125	1016.5	915.8	817.0	729.6	676.4	644.1	627.0	617.5	615.6
130	1132.4	1022.2	921.5	834.1	769.5	729.6	704.9	693.5	691.6
135	1214.1	1107.7	1005.1	919.6	851.2	805.6	780.9	765.7	761.9
140	1276.8	1170.4	1073.5	988.0	925.3	875.9	849.3	834.1	826.5
145	1303.4	1212.2	1124.8	1046.9	988.0	944.3	913.9	898.7	891.1
150	1311.0	1231.2	1155.2	1092.5	1037.4	1003.2	970.9	959.5	951.9
155	1292.0	1231.2	1174.2	1119.1	1083.0	1050.7	1026.0	1014.6	1007.0
160	1263.5	1217.9	1174.2	1143.8	1115.3	1086.8	1075.4	1065.9	1056.4
165	1221.7	1198.9	1176.1	1155.2	1130.5	1122.9	1113.4	1105.8	1100.1
170	1193.2	1178.0	1164.7	1159.0	1151.4	1145.7	1141.9	1136.2	1130.5
175	1172.3	1170.4	1168.5	1164.7	1162.8	1159.0	1157.1	1155.2	1151.4
180	1160.9	1160.9	1160.9	1160.9	1160.9	1160.9	1160.9	1160.9	1160.9

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	702.38	N.A.	9.20
0-30	1354.83	N.A.	17.70
0-40	1956.05	N.A.	25.50
0-60	2512.24	N.A.	32.70
0-80	2705.34	N.A.	35.20
0-90	2717.72	N.A.	35.40
10-90	2522.04	N.A.	32.90
20-40	1253.67	N.A.	16.30
20-50	1594.45	N.A.	20.80
40-70	692.77	N.A.	9.00
60-80	193.09	N.A.	2.50
70-80	56.51	N.A.	0.70
80-90	12.39	N.A.	0.20
90-110	475.84	N.A.	6.20
90-120	1161.5	N.A.	15.10
90-130	2062.7	N.A.	26.90
90-150	3863.38	N.A.	50.30
90-180	4958.06	N.A.	64.60
110-180	4482.22	N.A.	58.40
0-180	7675.79	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	195.69
10-20	506.70
20-30	652.45
30-40	601.22
40-50	340.79
50-60	215.41
60-70	136.58
70-80	56.51
80-90	12.39
90-100	95.03
100-110	380.81
110-120	685.65
120-130	901.20
130-140	952.97
140-150	847.71
150-160	624.08
160-170	357.55
170-180	113.05

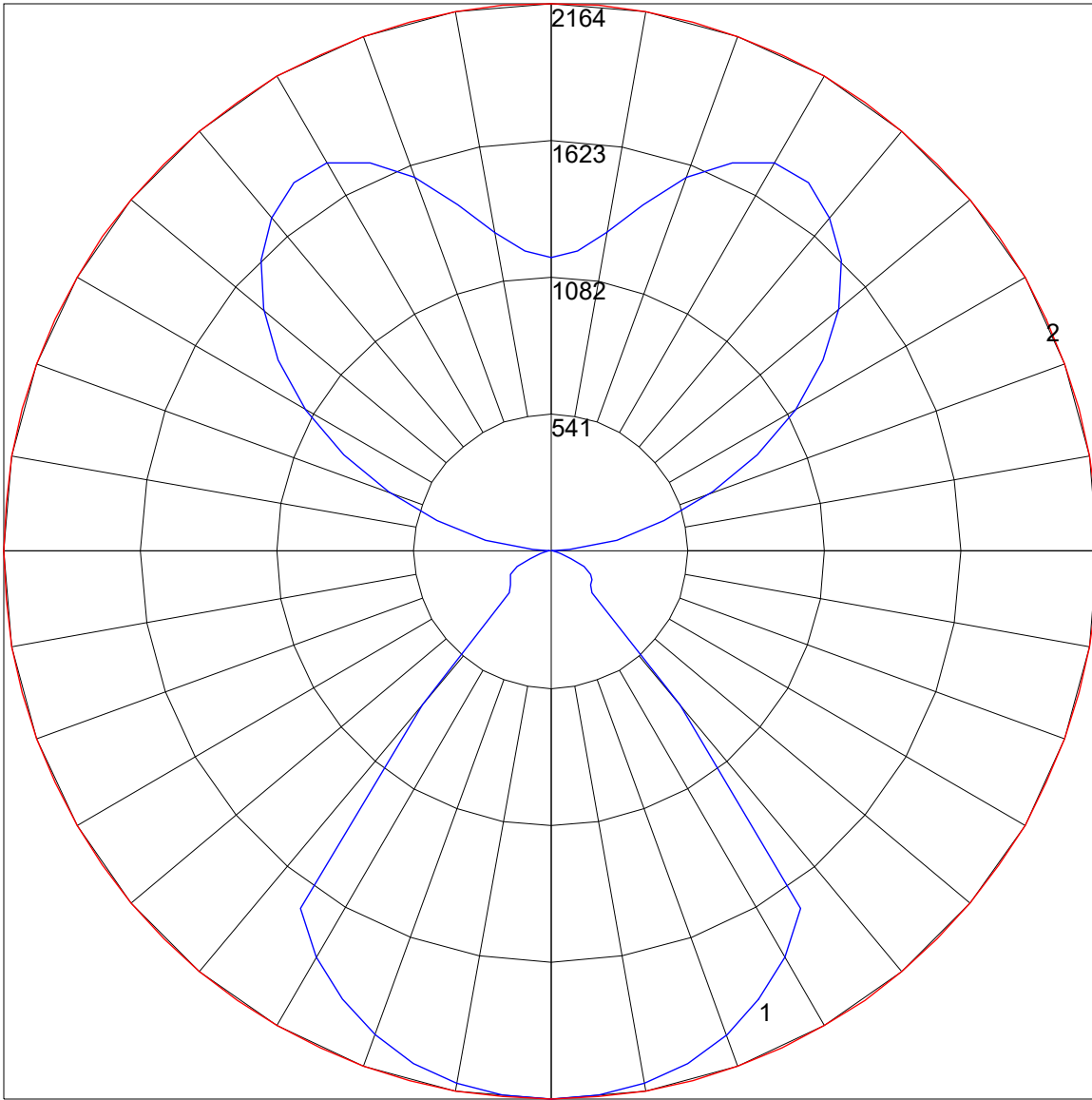
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35
1	95	92	88	85	86	83	80	78	67	65	64	53	52	50	39	39	38	32
2	88	81	76	71	79	74	69	66	60	57	54	48	46	44	36	35	34	28
3	81	72	66	61	73	66	60	56	54	50	47	43	40	38	33	31	30	25
4	74	65	58	52	67	59	53	49	49	45	41	39	36	34	30	28	27	23
5	69	58	51	46	62	53	47	42	44	40	36	36	33	30	28	26	24	21
6	64	53	45	40	58	49	42	37	40	36	32	33	30	27	26	24	22	19
7	59	48	41	36	54	44	38	33	37	32	29	30	27	24	24	22	20	17
8	55	44	37	32	50	40	34	30	34	29	26	28	25	22	22	20	18	16
9	52	40	33	29	47	37	31	27	31	27	24	26	23	20	21	19	17	15
10	48	37	30	26	44	34	29	25	29	25	22	24	21	19	19	17	16	14

POLAR GRAPH



Maximum Candela = 2164.1 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.)