

IES Report

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

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-G1G2-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	95	98	100	102
Total Lumens, 4' rail length (1219mm)	9316	9610	9806	10002
Lumens per foot (305mm)	2329	2403	2452	2501
Lumens per foot UP (305mm)	1165	1201	1226	1250
Lumens per foot DOWN (305mm)	1165	1201	1226	1250
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_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-HO-359-G1G2
 [LUMINAIRE] DoubleBox LED, 48", 3500K, 90 CRI, zipper board,
 [MORE] 120° batwing lens up with white polycarbonate reflectors/120° flying 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	9806
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	98.44
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	21631	22774	38689
55	16099	17758	36358
65	9958	11477	33425
75	4338	5424	26559
85	598	1055	10491

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	1369.919	1369.919	1369.919	1369.919	1369.919	1369.919	1369.919	1369.919	1369.919	1369.919
5	1392.871	1391.940	1390.971	1389.451	1388.007	1386.430	1384.720	1382.915	1380.996	1379.020
10	1457.395	1455.381	1451.847	1447.648	1442.518	1436.533	1429.674	1419.129	1408.166	1396.747
15	1547.569	1544.491	1538.259	1530.526	1519.829	1503.242	1485.116	1465.622	1444.912	1420.364
20	1637.420	1633.164	1624.709	1612.758	1592.884	1570.711	1545.213	1513.331	1480.024	1446.033
25	1702.248	1696.624	1688.378	1670.784	1649.466	1621.707	1588.780	1554.200	1507.175	1458.364
30	1732.382	1726.701	1717.106	1699.208	1675.762	1646.027	1611.048	1565.296	1513.141	1455.039
35	1717.790	1712.641	1702.438	1687.732	1664.229	1636.736	1603.600	1550.571	1496.155	1431.403
40	1657.218	1653.171	1644.032	1629.554	1611.067	1588.723	1550.191	1504.743	1451.372	1381.148
45	1555.055	1552.395	1545.156	1532.673	1516.485	1497.732	1462.753	1427.489	1367.848	1307.770
50	1412.517	1409.249	1403.378	1394.866	1384.435	1366.803	1341.932	1306.459	1257.059	1193.333
55	1229.813	1227.039	1224.189	1220.142	1214.271	1194.283	1181.116	1146.270	1109.201	1059.003
60	1016.120	1014.505	1011.332	998.260	986.233	972.724	961.533	950.589	920.189	879.966
65	782.458	783.465	765.700	749.341	745.427	742.368	738.644	727.187	713.393	688.997
70	545.813	537.719	519.403	519.289	527.155	528.751	528.219	522.595	507.015	492.309
75	339.986	319.922	324.482	327.617	327.731	330.163	330.752	326.990	326.477	317.908
80	174.572	162.526	166.459	167.409	168.378	169.765	171.304	172.178	172.387	172.919
85	45.353	50.236	48.678	49.362	51.129	52.649	52.573	56.734	56.696	58.444
90	2.755	2.850	2.926	2.926	3.002	2.926	3.002	2.926	2.926	3.002
95	45.353	50.236	48.678	49.362	51.129	52.649	52.573	56.734	56.696	58.444
100	174.572	162.526	166.459	167.409	168.378	169.765	171.304	172.178	172.387	172.919
105	339.986	319.922	324.482	327.617	327.731	330.163	330.752	326.990	326.477	317.908
110	545.813	537.719	519.403	519.289	527.155	528.751	528.219	522.595	507.015	492.309
115	782.458	783.465	765.700	749.360	745.427	742.368	738.644	727.187	713.393	688.997
120	1016.120	1014.505	1011.332	998.260	986.233	972.724	961.533	950.589	920.189	879.966
125	1229.813	1227.039	1224.189	1220.142	1214.271	1194.302	1181.116	1146.270	1109.201	1059.003
130	1412.517	1409.249	1403.378	1394.866	1384.435	1366.803	1341.932	1306.459	1257.059	1193.333
135	1555.055	1552.395	1545.156	1532.673	1516.485	1497.732	1462.753	1427.489	1367.848	1307.770
140	1657.218	1653.171	1644.032	1629.554	1611.067	1588.723	1550.191	1504.743	1451.372	1381.148
145	1717.790	1712.641	1702.438	1687.732	1664.229	1636.736	1603.600	1550.571	1496.155	1431.403
150	1732.382	1726.701	1717.106	1699.208	1675.762	1646.027	1611.048	1565.296	1513.141	1455.039
155	1702.248	1696.624	1688.378	1670.784	1649.466	1621.707	1588.780	1554.200	1507.175	1458.364
160	1637.420	1633.164	1624.709	1612.758	1592.884	1570.711	1545.213	1513.331	1480.024	1446.033
165	1547.569	1544.491	1538.259	1530.526	1519.829	1503.242	1485.116	1465.622	1444.912	1420.364
170	1457.395	1455.381	1451.847	1447.648	1442.518	1436.533	1429.674	1419.129	1408.166	1396.747
175	1392.871	1391.940	1390.971	1389.451	1388.007	1386.430	1384.720	1382.915	1380.996	1379.020
180	1369.900	1369.900	1369.900	1369.900	1369.900	1369.900	1369.900	1369.900	1369.900	1369.900

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	1369.919	1369.919	1369.919	1369.919	1369.919	1369.919	1369.919	1369.919	1369.919
5	1376.968	1374.859	1372.731	1370.584	1368.437	1366.309	1364.124	1362.110	1360.134
10	1384.986	1372.959	1360.970	1355.175	1349.703	1344.573	1339.766	1335.244	1331.349
15	1396.614	1375.771	1355.118	1334.826	1314.553	1305.205	1296.921	1289.321	1283.222
20	1409.458	1371.021	1333.857	1304.749	1276.857	1249.877	1238.344	1228.331	1220.978
25	1409.439	1358.462	1308.625	1260.764	1224.379	1192.212	1168.386	1155.884	1147.068
30	1393.289	1330.171	1267.984	1211.668	1159.741	1122.919	1089.555	1076.141	1067.477
35	1358.842	1287.440	1213.891	1146.840	1089.004	1043.632	1009.584	991.990	982.110
40	1306.231	1223.391	1142.888	1067.648	1006.867	957.372	924.958	905.008	895.109
45	1223.030	1139.829	1055.089	979.279	916.066	868.604	837.824	818.634	809.989
50	1118.929	1034.094	951.805	878.180	816.658	775.428	746.586	728.650	721.867
55	982.813	905.711	829.388	760.437	705.166	669.921	648.622	635.455	631.389
60	821.655	750.918	688.693	638.951	599.640	573.249	556.643	546.288	543.438

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DB_HO_359_G1G2.IES

CANDELA TABULATION - (Cont.)

65	645.867	597.588	554.553	515.299	484.861	464.360	452.827	446.082	443.498
70	467.761	440.078	409.564	382.888	364.439	351.652	345.686	341.183	340.081
75	305.026	289.218	270.408	252.282	242.516	238.013	232.199	229.748	232.864
80	166.516	156.142	145.958	138.738	135.356	140.695	139.574	137.674	136.705
85	55.613	51.832	49.248	47.063	44.213	43.111	40.679	40.774	41.971
90	2.850	2.850	2.926	2.850	2.755	2.679	2.926	2.850	2.679
95	55.613	51.832	49.248	47.063	44.213	43.111	40.679	40.774	41.971
100	166.516	156.142	145.958	138.738	135.356	140.695	139.574	137.674	136.705
105	305.026	289.218	270.408	252.282	242.516	238.013	232.199	229.748	232.864
110	467.761	440.078	409.564	382.888	364.439	351.652	345.686	341.183	340.081
115	645.867	597.588	554.553	515.299	484.861	464.360	452.827	446.082	443.498
120	821.655	750.918	688.693	638.951	599.640	573.249	556.643	546.288	543.438
125	982.813	905.711	829.388	760.437	705.166	669.921	648.622	635.455	631.389
130	1118.929	1034.094	951.805	878.180	816.658	775.428	746.586	728.650	721.867
135	1223.049	1139.829	1055.089	979.279	916.066	868.604	837.824	818.634	809.989
140	1306.231	1223.391	1142.888	1067.648	1006.867	957.372	924.958	905.008	895.109
145	1358.842	1287.440	1213.891	1146.840	1089.004	1043.632	1009.584	991.990	982.110
150	1393.289	1330.171	1267.984	1211.668	1159.741	1122.919	1089.555	1076.141	1067.477
155	1409.439	1358.462	1308.625	1260.764	1224.379	1192.212	1168.386	1155.884	1147.068
160	1409.458	1371.021	1333.857	1304.749	1276.857	1249.877	1238.344	1228.331	1220.978
165	1396.614	1375.771	1355.118	1334.826	1314.553	1305.205	1296.921	1289.321	1283.222
170	1384.986	1372.959	1360.970	1355.175	1349.703	1344.573	1339.766	1335.244	1331.349
175	1376.968	1374.859	1372.731	1370.584	1368.437	1366.309	1364.124	1362.110	1360.134
180	1369.900	1369.900	1369.900	1369.900	1369.900	1369.900	1369.900	1369.900	1369.900

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DB_HO_359_G1G2.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	534.37	N.A.	5.40
0-30	1198.96	N.A.	12.20
0-40	2065.56	N.A.	21.10
0-60	3886.91	N.A.	39.60
0-80	4832.46	N.A.	49.30
0-90	4903.17	N.A.	50.00
10-90	4771.08	N.A.	48.70
20-40	1531.19	N.A.	15.60
20-50	2480.99	N.A.	25.30
40-70	2450.1	N.A.	25.00
60-80	945.55	N.A.	9.60
70-80	316.80	N.A.	3.20
80-90	70.71	N.A.	0.70
90-110	387.51	N.A.	4.00
90-120	1016.26	N.A.	10.40
90-130	1887.81	N.A.	19.30
90-150	3704.21	N.A.	37.80
90-180	4903.17	N.A.	50.00
110-180	4515.66	N.A.	46.00
0-180	9806.34	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	132.09
10-20	402.28
20-30	664.59
30-40	866.60
40-50	949.80
50-60	871.55
60-70	628.75
70-80	316.80
80-90	70.71
90-100	70.71
100-110	316.80
110-120	628.75
120-130	871.55
130-140	949.80
140-150	866.60
150-160	664.59
160-170	402.28
170-180	132.09

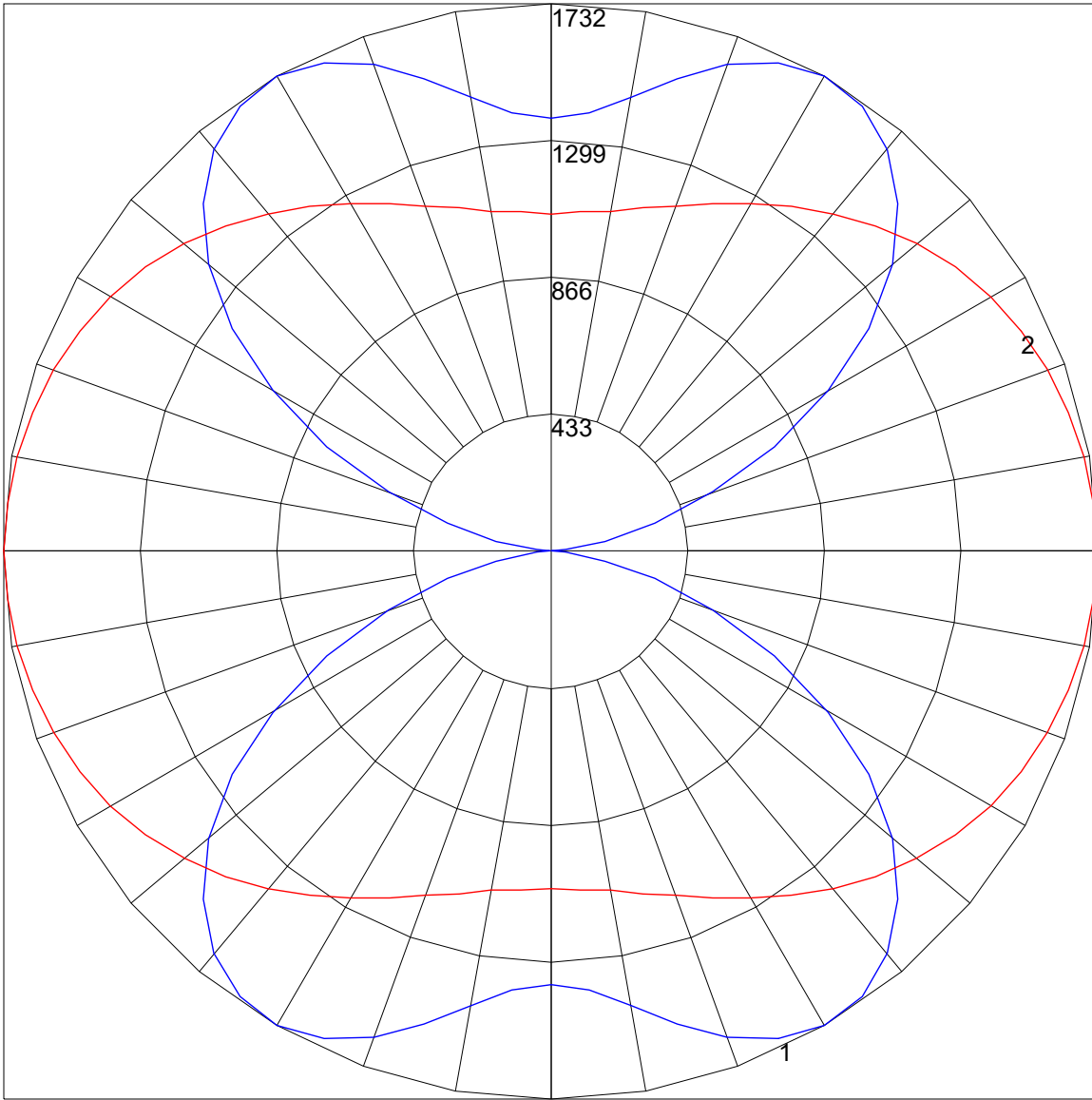
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DB_HO_359_G1G2.IES

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
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 = 1732.382 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.)