

IES Report

WingRail® | 107 | White Baffle with EdgeSoft™ | 90 CRI | HO

107-WG-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-WB-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	74	77	78	80
Total Lumens, 4' rail length (1219mm)	3626	3741	3817	3893
Lumens per foot (305mm)	907	935	954	973
Input Power (W), 4' rail length (1219mm)	49.2	49.2	49.2	49.2
Watts per foot (305mm)	12.4	12.4	12.4	12.4
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_WG_HO_359_WB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L071704218 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 11/1/2017
[MANUFAC] Vode Lighting
[LUMCAT] 107-WG-48-Z-HO-359-WB
[LUMINAIRE] WingRail LED, 48", 3500K, 90 CRI, zipper board,
[MORE] white baffle, high output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3821
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	49.22
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.84
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	3.83 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	55050	43477	25075
55	57688	39842	20460
65	55340	33458	16186
75	49497	28890	12328
85	49980	29100	7663

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	1484.934	1484.934	1484.934	1484.934	1484.934	1484.934	1484.934	1484.934	1484.934	1484.934
5	1636.041	1635.556	1634.101	1631.850	1628.145	1624.129	1619.124	1612.683	1605.117	1596.892
10	1764.275	1763.460	1761.539	1757.834	1752.189	1745.593	1737.522	1726.406	1714.494	1700.643
15	1853.185	1852.234	1849.965	1846.104	1839.663	1831.282	1821.291	1807.770	1792.308	1773.781
20	1909.251	1908.281	1906.186	1902.325	1895.399	1885.738	1873.497	1857.220	1836.443	1812.755
25	1936.314	1935.519	1933.249	1928.748	1920.852	1909.096	1893.149	1871.712	1844.009	1812.270
30	1938.894	1937.769	1934.859	1929.233	1918.757	1902.480	1880.248	1849.965	1812.445	1769.746
35	1919.242	1918.272	1913.771	1904.905	1888.959	1864.786	1832.893	1790.698	1740.743	1687.102
40	1875.747	1873.652	1866.726	1852.875	1828.702	1793.743	1749.453	1694.202	1632.976	1570.158
45	1802.279	1799.059	1787.943	1767.340	1733.177	1685.666	1629.115	1562.903	1492.345	1423.397
50	1690.807	1685.821	1670.515	1642.326	1598.191	1540.030	1473.508	1399.244	1323.681	1251.028
55	1531.979	1526.334	1506.682	1471.083	1420.992	1356.060	1285.832	1208.989	1131.505	1058.057
60	1324.496	1318.211	1297.744	1260.864	1207.534	1142.776	1073.674	999.566	926.428	857.480
65	1082.850	1076.099	1055.961	1021.798	972.018	915.486	853.949	788.532	724.105	654.672
70	829.951	824.151	807.544	778.386	738.286	692.852	642.276	592.651	541.260	494.060
75	593.136	588.945	576.219	555.286	526.438	493.264	457.025	419.486	380.492	346.193
80	379.212	376.632	368.581	355.854	337.812	316.860	293.347	268.224	243.082	220.209
85	201.682	200.402	196.852	190.896	182.030	171.399	158.828	145.461	130.814	117.428
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
 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>	<u>95</u>
0	1484.934	1484.934	1484.934	1484.934	1484.934	1484.934	1484.934	1484.934	1484.934	1484.934
5	1588.200	1578.365	1568.063	1556.792	1545.191	1531.824	1518.438	1505.071	1490.250	1474.943
10	1684.366	1666.169	1647.002	1625.739	1601.237	1575.319	1547.926	1519.253	1487.999	1455.291
15	1752.189	1727.221	1700.003	1669.234	1635.245	1598.987	1557.917	1514.733	1467.707	1415.987
20	1784.082	1751.393	1715.464	1676.160	1631.695	1585.135	1532.134	1476.883	1415.502	1348.339
25	1774.266	1731.566	1686.151	1637.496	1583.525	1527.304	1465.457	1400.525	1329.172	1250.873
30	1720.625	1667.779	1613.498	1556.792	1496.050	1433.873	1366.051	1296.618	1218.165	1132.785
35	1628.475	1567.423	1507.011	1445.630	1381.358	1317.085	1247.498	1175.155	1094.936	1006.821
40	1504.276	1437.909	1374.102	1309.190	1245.887	1180.956	1111.368	1040.170	962.046	877.462
45	1352.529	1283.582	1217.854	1151.797	1088.495	1024.863	959.136	892.769	820.930	744.242
50	1177.735	1108.943	1040.655	976.538	916.126	857.325	798.038	739.897	678.030	614.243
55	985.869	919.347	853.309	795.478	741.507	690.601	640.821	591.681	543.355	492.294
60	790.957	729.576	675.139	627.765	581.049	539.339	498.910	461.371	422.862	384.198
65	612.477	559.477	514.857	475.067	438.168	404.335	374.051	345.378	316.705	288.517
70	451.225	411.105	375.991	344.583	317.345	291.737	268.709	246.962	224.730	204.748
75	314.765	285.607	259.844	236.641	216.659	197.492	180.420	163.678	147.731	133.065
80	198.947	179.140	161.408	145.306	131.125	117.603	104.876	93.430	82.004	72.013
85	104.547	92.460	81.344	70.888	62.022	53.486	45.435	38.024	30.924	25.298
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
 Angles

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	1484.934	1484.934	1484.934	1484.934	1484.934	1484.934	1484.934	1484.934	1484.934	1484.934
5	1460.122	1445.475	1430.013	1415.346	1400.214	1386.518	1372.977	1360.735	1349.309	1339.143
10	1421.302	1387.313	1352.199	1318.211	1282.767	1250.078	1218.339	1188.056	1160.993	1135.540
15	1365.081	1312.740	1257.644	1203.673	1149.547	1096.876	1047.581	1003.116	963.482	926.757
20	1282.456	1213.179	1140.856	1071.249	1002.476	938.203	880.682	827.856	783.062	743.272
25	1172.264	1091.871	1008.587	931.103	856.529	788.707	731.361	680.125	638.881	603.127
30	1048.221	962.201	875.522	796.913	724.435	661.928	610.867	567.043	532.084	502.770
35	920.957	834.782	751.013	677.720	613.758	559.477	516.777	480.693	452.660	429.147

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CANDELA TABULATION - (Cont.)

40	794.993	714.754	639.366	575.249	520.483	475.707	440.749	411.261	388.543	369.221
45	671.104	602.157	537.729	484.728	439.623	403.850	373.411	349.898	330.712	314.455
50	553.831	496.970	445.249	402.414	365.845	336.687	312.844	292.067	275.150	260.639
55	445.094	400.474	359.870	325.241	297.693	273.695	253.403	234.701	219.899	207.173
60	348.114	314.765	283.531	256.293	233.751	213.439	195.571	180.110	167.694	159.158
65	261.124	236.001	212.314	191.691	171.884	157.392	141.116	128.719	119.213	111.317
70	185.095	166.083	148.682	132.095	115.663	102.451	91.820	82.954	76.514	71.198
75	119.038	105.517	91.025	77.639	65.882	57.191	50.421	45.105	40.915	37.849
80	62.662	52.186	41.729	33.504	27.393	23.028	19.652	17.072	14.977	13.541
85	19.167	13.211	9.176	6.615	4.831	3.220	1.280	0.640	0.330	0.330
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	1484.934	1484.934	1484.934	1484.934	1484.934	1484.934	1484.934
5	1329.657	1321.916	1315.145	1309.830	1306.124	1303.719	1302.574
10	1112.823	1093.811	1078.174	1065.138	1056.117	1050.471	1048.376
15	894.864	868.286	847.179	829.951	818.020	810.610	808.359
20	709.613	683.035	661.598	645.166	633.895	627.124	625.029
25	574.124	551.096	533.539	519.202	510.007	504.225	502.596
30	479.413	461.041	446.704	435.433	428.022	423.502	422.066
35	410.135	395.488	383.887	374.207	368.096	364.545	363.110
40	353.274	340.877	331.042	322.991	317.520	314.299	312.844
45	300.758	289.972	280.951	273.540	268.709	265.644	264.829
50	248.398	238.892	231.015	224.885	220.694	217.959	217.474
55	197.007	188.956	182.515	177.840	174.309	172.369	171.729
60	149.652	143.366	138.535	134.830	132.580	130.969	130.484
65	105.672	101.171	97.776	95.041	93.275	92.150	91.820
70	67.182	64.272	61.692	59.771	58.801	57.987	57.987
75	35.444	33.504	32.049	30.768	30.128	29.973	29.973
80	12.241	11.116	10.301	9.661	9.351	9.176	9.021
85	0.330	0.330	0.330	0.330	0.330	0.330	0.330
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	533.07	N.A.	14.00
0-30	1113.84	N.A.	29.10
0-40	1801.67	N.A.	47.20
0-60	3100.24	N.A.	81.10
0-80	3751.91	N.A.	98.20
0-90	3821.09	N.A.	100.00
10-90	3681.01	N.A.	96.30
20-40	1268.6	N.A.	33.20
20-50	1966.77	N.A.	51.50
40-70	1721.52	N.A.	45.10
60-80	651.66	N.A.	17.10
70-80	228.72	N.A.	6.00
80-90	69.19	N.A.	1.80
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3821.09	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	140.08
10-20	392.99
20-30	580.76
30-40	687.84
40-50	698.17
50-60	600.40
60-70	422.95
70-80	228.72
80-90	69.19
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

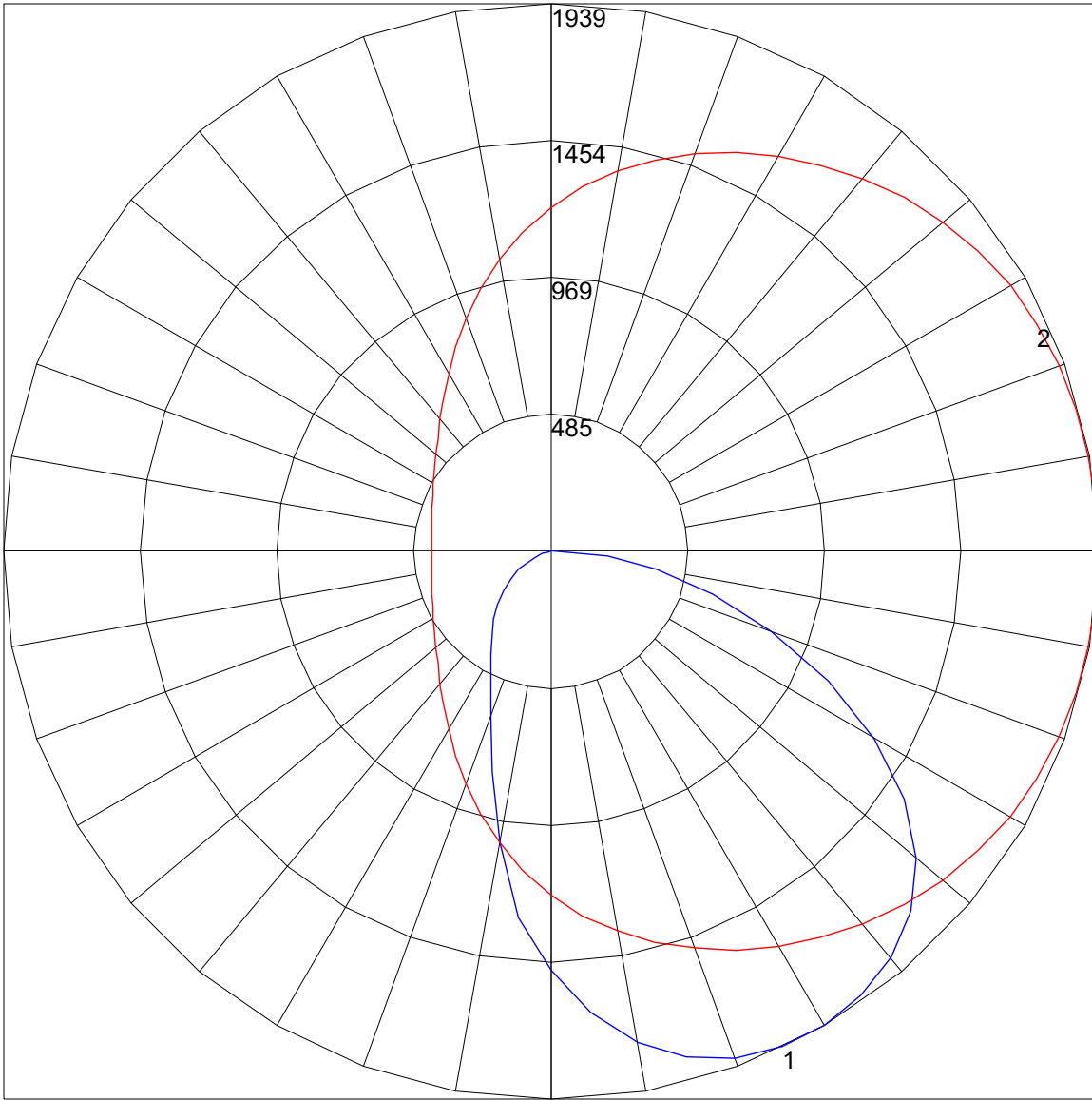
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	55	48	61	54	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	26

POLAR GRAPH



Maximum Candela = 1938.894 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.)