

IES Report

WingRail® | 107 | White Baffle with EdgeSoft™ | 80 CRI | HO

107-WG-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-WB-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	86	89	90	92
Total Lumens, 4' rail length (1219mm)	4206	4339	4428	4516
Lumens per foot (305mm)	1052	1085	1107	1129
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	85	85	85	85

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_35_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-35-WB
[LUMINAIRE] WingRail LED, 48", 3500K, 80 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	4432
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
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	63847	50425	29082
55	66906	46208	23730
65	64183	38804	18772
75	57406	33506	14298
85	57966	33750	8888

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	1722.218	1722.217	1722.217	1722.217	1722.217	1722.217	1722.217	1722.217	1722.217	1722.217
5	1897.470	1896.908	1895.220	1892.610	1888.313	1883.655	1877.850	1870.380	1861.605	1852.065
10	2046.195	2045.250	2043.023	2038.725	2032.178	2024.527	2015.168	2002.275	1988.460	1972.395
15	2149.313	2148.210	2145.577	2141.100	2133.630	2123.910	2112.323	2096.640	2078.707	2057.220
20	2214.338	2213.213	2210.782	2206.305	2198.273	2187.068	2172.870	2153.992	2129.895	2102.423
25	2245.725	2244.802	2242.170	2236.950	2227.793	2214.157	2195.662	2170.800	2138.670	2101.860
30	2248.718	2247.412	2244.037	2237.512	2225.363	2206.485	2180.700	2145.577	2102.063	2052.540
35	2225.925	2224.800	2219.580	2209.298	2190.802	2162.767	2125.778	2076.840	2018.902	1956.690
40	2175.480	2173.050	2165.017	2148.952	2120.918	2080.372	2029.005	1964.925	1893.915	1821.060
45	2090.273	2086.537	2073.645	2049.750	2010.128	1955.025	1889.438	1812.645	1730.813	1650.848
50	1960.987	1955.205	1937.453	1904.760	1853.572	1786.118	1708.965	1622.835	1535.197	1450.935
55	1776.780	1770.233	1747.440	1706.152	1648.057	1572.750	1491.300	1402.178	1312.313	1227.128
60	1536.142	1528.852	1505.115	1462.342	1400.490	1325.385	1245.240	1159.290	1074.465	994.500
65	1255.882	1248.053	1224.697	1185.075	1127.340	1061.775	990.405	914.535	839.813	759.285
70	962.572	955.845	936.585	902.768	856.260	803.565	744.908	687.352	627.750	573.008
75	687.915	683.055	668.295	644.018	610.560	572.085	530.055	486.517	441.293	401.512
80	439.808	436.815	427.478	412.717	391.793	367.493	340.223	311.085	281.925	255.398
85	233.910	232.425	228.308	221.400	211.118	198.787	184.208	168.705	151.718	136.192
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	1722.217	1722.217	1722.217	1722.217	1722.217	1722.217	1722.217	1722.217	1722.217	1722.217
5	1841.985	1830.578	1818.630	1805.557	1792.102	1776.600	1761.075	1745.572	1728.382	1710.630
10	1953.517	1932.412	1910.182	1885.523	1857.105	1827.045	1795.275	1762.020	1725.773	1687.838
15	2032.178	2003.220	1971.652	1935.967	1896.547	1854.495	1806.862	1756.777	1702.237	1642.253
20	2069.168	2031.255	1989.585	1944.000	1892.430	1838.430	1776.960	1712.880	1641.690	1563.795
25	2057.782	2008.260	1955.588	1899.158	1836.563	1771.358	1699.628	1624.320	1541.565	1450.755
30	1995.570	1934.280	1871.325	1805.557	1735.110	1662.997	1584.338	1503.810	1412.820	1313.797
35	1888.695	1817.888	1747.822	1676.632	1602.090	1527.547	1446.840	1362.938	1269.900	1167.705
40	1744.650	1667.678	1593.675	1518.390	1444.973	1369.665	1288.957	1206.382	1115.775	1017.675
45	1568.655	1488.690	1412.460	1335.848	1262.430	1188.630	1112.400	1035.428	952.110	863.168
50	1365.930	1286.145	1206.945	1132.582	1062.517	994.320	925.560	858.128	786.375	712.395
55	1143.405	1066.253	989.663	922.590	859.995	800.955	743.220	686.227	630.180	570.960
60	917.347	846.158	783.023	728.077	673.898	625.523	578.633	535.095	490.433	445.590
65	710.347	648.878	597.128	550.980	508.185	468.945	433.822	400.567	367.313	334.620
70	523.327	476.798	436.072	399.645	368.055	338.355	311.647	286.425	260.640	237.465
75	365.063	331.245	301.365	274.455	251.280	229.050	209.250	189.833	171.338	154.327
80	230.738	207.765	187.200	168.525	152.077	136.395	121.635	108.360	95.108	83.520
85	121.252	107.235	94.343	82.215	71.933	62.032	52.695	44.100	35.865	29.340
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	1722.217	1722.217	1722.217	1722.217	1722.217	1722.217	1722.217	1722.217	1722.217	1722.217
5	1693.440	1676.453	1658.520	1641.510	1623.960	1608.075	1592.370	1578.172	1564.920	1553.130
10	1648.418	1608.997	1568.273	1528.852	1487.745	1449.832	1413.023	1377.900	1346.513	1316.993
15	1583.213	1522.507	1458.608	1396.013	1333.237	1272.150	1214.977	1163.408	1117.440	1074.848
20	1487.385	1407.037	1323.158	1242.428	1162.665	1088.122	1021.410	960.143	908.190	862.043
25	1359.585	1266.345	1169.753	1079.888	993.398	914.737	848.227	788.805	740.970	699.503
30	1215.720	1115.955	1015.425	924.255	840.195	767.700	708.480	657.653	617.107	583.110
35	1068.120	968.175	871.020	786.015	711.832	648.878	599.355	557.505	524.992	497.723

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PHOTOMETRIC FILENAME : VODE_107_WG_HO_35_WB.IES

CANDELA TABULATION - (Cont.)

40	922.028	828.967	741.533	667.170	603.653	551.722	511.178	476.978	450.630	428.220
45	778.342	698.378	623.655	562.185	509.873	468.382	433.080	405.810	383.558	364.702
50	642.330	576.383	516.398	466.717	424.305	390.488	362.835	338.738	319.118	302.288
55	516.217	464.467	417.375	377.212	345.262	317.430	293.895	272.205	255.037	240.278
60	403.740	365.063	328.837	297.248	271.103	247.545	226.822	208.890	194.490	184.590
65	302.850	273.712	246.240	222.322	199.350	182.542	163.665	149.287	138.262	129.105
70	214.673	192.623	172.440	153.202	134.145	118.823	106.493	96.210	88.740	82.575
75	138.060	122.377	105.570	90.045	76.410	66.330	58.477	52.313	47.453	43.898
80	72.675	60.525	48.398	38.858	31.770	26.707	22.793	19.800	17.370	15.705
85	22.230	15.322	10.643	7.673	5.603	3.735	1.485	0.743	0.383	0.383
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	1722.217	1722.217	1722.217	1722.217	1722.217	1722.217	1722.217
5	1542.128	1533.150	1525.297	1519.132	1514.835	1512.045	1510.717
10	1290.645	1268.595	1250.460	1235.340	1224.878	1218.330	1215.900
15	1037.858	1007.033	982.553	962.572	948.735	940.140	937.530
20	823.005	792.180	767.317	748.260	735.188	727.335	724.905
25	665.865	639.158	618.795	602.168	591.503	584.798	582.908
30	556.020	534.712	518.085	505.012	496.418	491.175	489.510
35	475.673	458.685	445.230	434.002	426.915	422.798	421.132
40	409.725	395.348	383.940	374.603	368.257	364.522	362.835
45	348.817	336.308	325.845	317.250	311.647	308.092	307.147
50	288.090	277.065	267.930	260.820	255.960	252.787	252.225
55	228.488	219.150	211.680	206.257	202.162	199.912	199.170
60	173.565	166.275	160.673	156.375	153.765	151.898	151.335
65	122.558	117.338	113.400	110.228	108.180	106.875	106.493
70	77.918	74.543	71.550	69.323	68.198	67.252	67.252
75	41.108	38.858	37.170	35.685	34.943	34.763	34.763
80	14.197	12.893	11.947	11.205	10.845	10.643	10.463
85	0.383	0.383	0.383	0.383	0.383	0.383	0.383
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	618.26	N.A.	14.00
0-30	1291.82	N.A.	29.10
0-40	2089.57	N.A.	47.20
0-60	3595.64	N.A.	81.10
0-80	4351.44	N.A.	98.20
0-90	4431.68	N.A.	100.00
10-90	4269.21	N.A.	96.30
20-40	1471.31	N.A.	33.20
20-50	2281.05	N.A.	51.50
40-70	1996.61	N.A.	45.10
60-80	755.79	N.A.	17.10
70-80	265.26	N.A.	6.00
80-90	80.24	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	4431.68	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	162.47
10-20	455.79
20-30	673.57
30-40	797.75
40-50	809.74
50-60	696.34
60-70	490.53
70-80	265.26
80-90	80.24
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

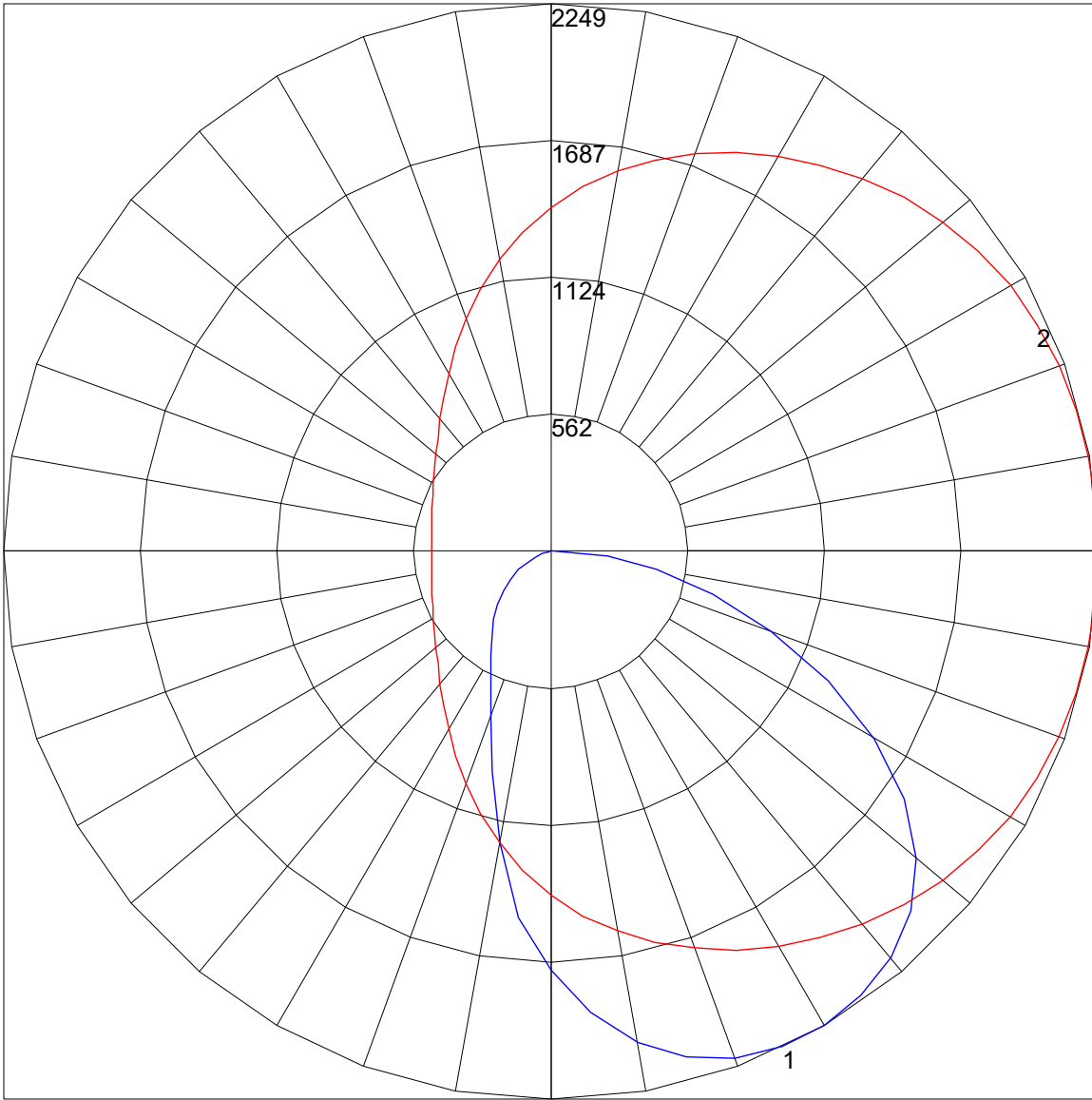
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	25

POLAR GRAPH



Maximum Candela = 2248.718 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.)