

IES Report

RaceRail® | 107 | 120° FlyWing™ | 80 CRI | HO

107-RR-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-G2-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	99	103	105	107
Total Lumens, 4' rail length (1219mm)	4871	5024	5127	5230
Lumens per foot (305mm)	1218	1256	1282	1307
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_RR_HO_35_G2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L071704215 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 11/1/2017
[MANUFAC] Vode Lighting
[LUMCAT] 107-RR-48-Z-HO-35-G2
[LUMINAIRE] RaceRail LED, 48", 3500K, 80 CRI, zipper board,
[MORE] 120° flywing lens, high output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5131
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	49.22
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.54
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.52
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.06 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	102341	90478	59363
55	95787	86574	56033
65	72471	71456	53954
75	41853	48745	47089
85	18158	23377	24379

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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	1694.093	1694.092	1694.092	1694.092	1694.092	1694.092	1694.092	1694.092	1694.092	1694.092
5	1703.543	1703.543	1702.980	1702.328	1701.203	1699.987	1698.682	1697.197	1695.420	1693.733
10	1735.290	1734.638	1732.500	1729.800	1725.682	1720.170	1714.365	1707.277	1699.987	1692.135
15	1772.303	1770.795	1767.150	1761.457	1753.245	1743.615	1731.465	1717.650	1702.237	1686.060
20	1800.135	1798.537	1793.497	1785.848	1773.967	1759.680	1742.017	1721.385	1697.737	1672.515
25	1807.605	1806.007	1800.697	1791.360	1777.905	1760.152	1738.845	1712.700	1682.438	1648.890
30	1790.235	1788.277	1782.293	1772.303	1757.340	1738.193	1714.568	1684.957	1649.723	1609.650
35	1744.088	1742.130	1736.235	1726.515	1711.485	1691.775	1666.822	1635.435	1597.230	1552.207
40	1664.122	1662.818	1657.305	1648.418	1634.693	1616.287	1591.447	1559.767	1520.820	1473.165
45	1546.402	1544.918	1540.620	1533.713	1522.215	1506.533	1484.190	1454.310	1415.250	1367.145
50	1385.370	1384.425	1381.995	1377.608	1370.047	1358.190	1339.785	1313.235	1277.460	1231.043
55	1174.050	1174.050	1174.050	1173.870	1171.530	1165.455	1153.215	1132.943	1102.882	1061.122
60	920.700	921.645	923.895	927.158	929.857	930.420	925.852	913.995	892.215	860.558
65	654.480	655.785	659.610	664.942	671.378	676.800	679.230	675.878	664.380	645.322
70	418.140	419.243	422.887	428.400	435.127	442.238	448.223	450.630	448.313	441.113
75	231.480	232.335	235.417	239.985	246.240	253.260	259.785	265.207	268.110	269.595
80	105.368	105.660	106.582	108.180	110.610	113.400	117.045	121.343	126.585	131.715
85	33.818	33.998	34.380	35.212	36.337	37.935	39.330	40.928	42.322	43.538
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>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	1694.092	1694.092	1694.092	1694.092	1694.092	1694.092	1694.092	1694.092	1694.092
5	1692.045	1690.267	1688.602	1686.915	1685.880	1684.845	1684.102	1683.832	1683.540
10	1684.193	1676.070	1668.510	1661.513	1655.797	1650.668	1647.023	1644.862	1644.120
15	1668.892	1651.140	1634.513	1618.245	1604.430	1592.550	1583.775	1578.555	1576.868
20	1644.975	1616.287	1588.253	1560.330	1536.503	1515.578	1500.165	1490.648	1487.182
25	1610.595	1571.175	1530.720	1489.995	1454.490	1423.193	1399.658	1384.987	1379.003
30	1562.670	1512.787	1460.835	1407.420	1360.418	1318.477	1287.180	1267.650	1260.000
35	1498.770	1440.293	1377.900	1313.910	1256.918	1206.652	1168.830	1145.655	1137.060
40	1414.328	1349.955	1280.632	1208.993	1145.947	1090.733	1049.152	1023.660	1014.503
45	1306.800	1239.165	1166.963	1093.523	1029.082	972.742	931.455	906.232	896.985
50	1171.912	1105.763	1037.025	967.140	907.628	856.440	818.798	795.915	787.680
55	1008.337	948.735	889.133	830.385	781.245	740.610	711.090	693.045	686.790
60	818.707	773.685	729.945	688.298	652.612	623.452	603.653	592.628	588.712
65	619.447	592.065	566.280	542.475	522.675	504.720	493.515	489.038	487.260
70	430.380	419.535	409.163	399.442	391.613	384.030	378.158	378.067	377.775
75	268.380	267.548	266.152	264.645	263.813	261.743	258.300	258.570	260.438
80	136.575	140.400	142.650	143.955	144.607	144.225	142.650	139.928	142.357
85	44.550	44.752	44.752	46.530	48.195	48.487	47.453	45.112	45.405
90	0.000	0.000	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	636.62	N.A.	12.40
0-30	1383.9	N.A.	27.00
0-40	2318.37	N.A.	45.20
0-60	4192.84	N.A.	81.70
0-80	5073.79	N.A.	98.90
0-90	5131.34	N.A.	100.00
10-90	4969.77	N.A.	96.90
20-40	1681.76	N.A.	32.80
20-50	2674.83	N.A.	52.10
40-70	2476.05	N.A.	48.30
60-80	880.94	N.A.	17.20
70-80	279.37	N.A.	5.40
80-90	57.55	N.A.	1.10
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	5131.34	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	161.57
10-20	475.05
20-30	747.28
30-40	934.47
40-50	993.07
50-60	881.40
60-70	601.57
70-80	279.37
80-90	57.55
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

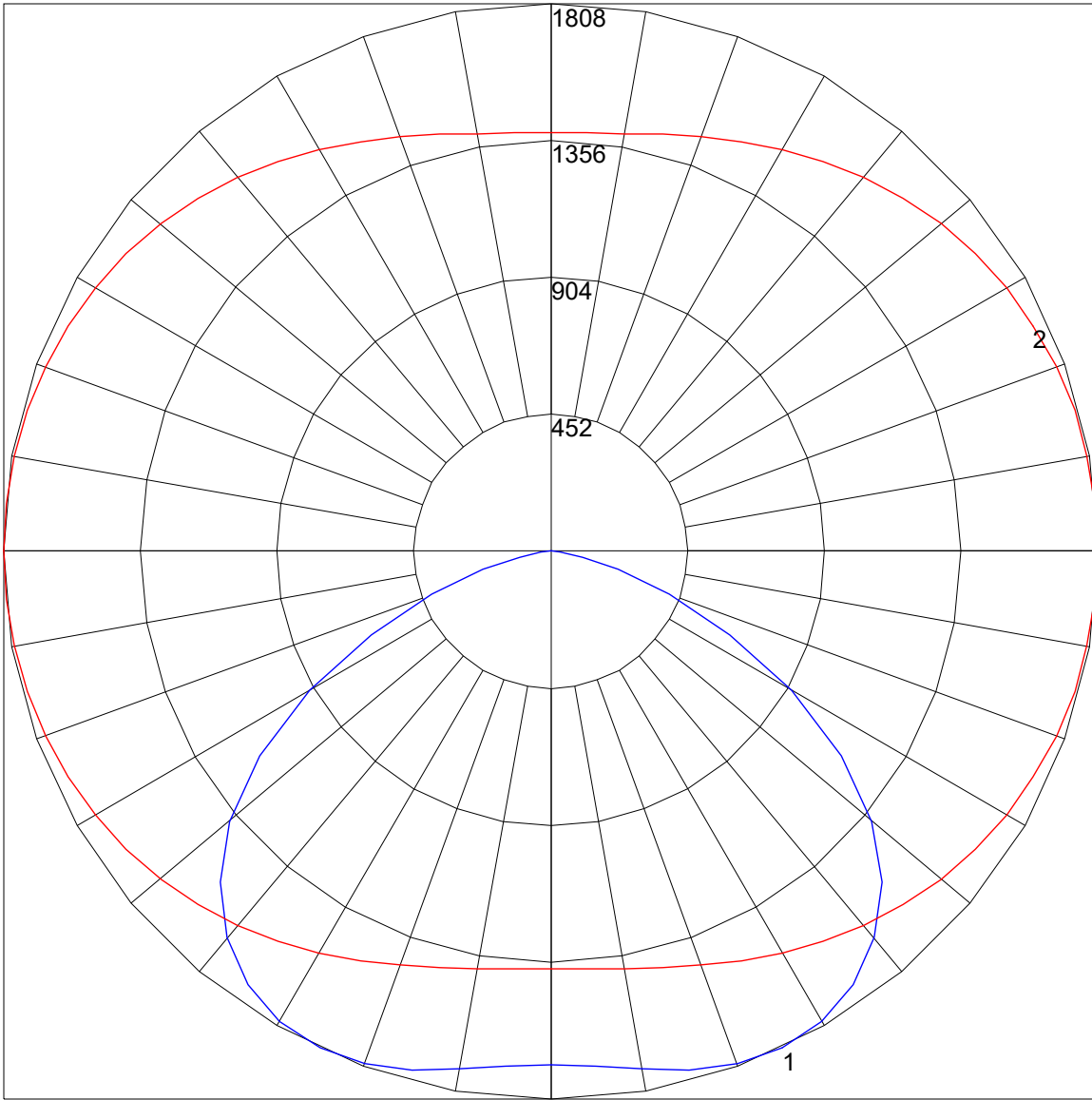
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1807.605 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)