

IES Report

RaceRail® | 107 | 120° Batwing Lens | 90 CRI | HO

107-RR-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-359-G1-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	98	101	103	104
Total Lumens, 4' rail length (1219mm)	4789	4940	5041	5091
Lumens per foot (305mm)	1197	1235	1260	1273
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	94	94	94	94

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_359_G1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L121911515R01 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB
[ISSUE DATE] 12/23/2019
[MANUFAC] Vode Lighting
[LUMCAT] 107-RR-48-Z-HO-359-G1-AL
[LUMINAIRE] RaceRail LED, 48", 3500K, 90 CRI, zipper board, 120° batwing lens,
[MORE] high output, clear anodized finish
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5040
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	49.06
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.07 ft
Luminous Width (90-270)	3.84 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	118.655	118.655	118.408	118.009	117.135	115.786	113.715	111.169	107.749	102.011
100	294.652	294.728	295.279	295.602	295.355	293.284	288.914	281.656	269.876	253.707
105	496.109	495.881	495.786	495.406	493.639	489.991	483.132	470.782	452.713	427.386
110	713.032	712.956	712.481	711.037	707.218	701.176	690.175	672.733	646.855	611.572
115	931.874	931.703	929.632	926.459	920.075	909.169	893.000	868.870	835.354	791.711
120	1140.342	1138.993	1135.801	1129.664	1120.126	1104.356	1082.373	1051.783	1010.705	957.657
125	1326.200	1324.452	1319.512	1310.525	1296.978	1276.439	1249.592	1213.131	1164.548	1102.285
130	1480.689	1478.789	1472.329	1461.575	1445.026	1420.725	1388.311	1344.611	1288.390	1218.945
135	1602.536	1599.819	1592.181	1578.482	1557.696	1528.721	1489.771	1438.737	1375.904	1302.165
140	1679.771	1676.351	1665.768	1648.953	1624.519	1590.262	1546.467	1491.994	1427.261	1353.275
145	1704.300	1700.006	1688.625	1669.815	1643.386	1607.552	1562.085	1508.733	1446.204	1374.783
150	1680.417	1676.826	1665.445	1646.255	1619.807	1584.847	1542.724	1492.393	1434.595	1371.914
155	1613.841	1610.896	1599.990	1582.548	1558.570	1527.524	1490.322	1447.002	1399.065	1346.834
160	1511.754	1508.961	1500.050	1485.876	1466.363	1441.359	1412.289	1380.445	1345.162	1308.929
165	1391.180	1389.204	1383.789	1375.106	1362.908	1347.632	1330.266	1310.430	1289.568	1267.680
170	1287.345	1286.471	1284.001	1279.384	1273.817	1266.958	1258.750	1249.915	1240.605	1230.402
175	1218.223	1217.824	1217.026	1216.076	1214.955	1213.055	1211.136	1208.913	1206.595	1204.296
180	1196.563	1196.563	1196.563	1196.563	1196.563	1196.563	1196.563	1196.563	1196.563	1196.563

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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
45	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	93.252	83.220	73.416	64.828	59.166	55.746	54.074	53.200	51.129
100	233.168	210.957	189.373	170.981	158.156	149.796	144.305	140.163	137.294
105	395.371	360.183	325.071	294.006	271.472	255.702	245.119	237.861	234.593
110	567.872	517.845	468.008	422.769	389.006	364.553	348.631	338.447	334.780
115	734.768	672.030	608.076	548.910	504.070	471.352	449.920	437.114	432.573
120	890.226	815.195	738.112	667.014	613.567	572.964	546.041	530.195	524.780
125	1025.107	941.032	855.342	775.466	713.678	666.045	634.828	616.436	610.622
130	1134.300	1044.221	954.807	870.238	803.567	751.887	716.927	696.787	690.099
135	1216.228	1125.446	1034.987	951.064	883.443	830.262	794.257	773.148	765.909
140	1269.751	1183.586	1097.896	1017.621	953.211	902.557	867.122	846.184	838.850
145	1298.574	1220.541	1143.287	1071.771	1014.676	967.784	935.294	915.629	908.922
150	1305.585	1238.458	1174.428	1115.490	1066.603	1027.178	998.431	981.084	975.194
155	1293.634	1242.201	1193.219	1147.676	1110.170	1078.858	1056.172	1041.846	1037.134
160	1271.347	1236.691	1201.902	1170.039	1143.762	1122.178	1105.781	1095.350	1091.930
165	1245.146	1224.284	1203.726	1184.783	1169.089	1155.713	1145.757	1139.468	1137.473
170	1220.370	1210.414	1201.579	1192.421	1185.581	1178.893	1174.751	1172.034	1171.236
175	1201.731	1199.356	1197.038	1195.290	1193.694	1192.421	1191.623	1190.996	1190.996
180	1196.563	1196.563	1196.563	1196.563	1196.563	1196.563	1196.563	1196.563	1196.563

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	529.20	N.A.	10.50
90-120	1248.22	N.A.	24.80
90-130	2161.33	N.A.	42.90
90-150	3947.81	N.A.	78.30
90-180	5040.36	N.A.	100.00
110-180	4511.16	N.A.	89.50
0-180	5040.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	112.96
100-110	416.24
110-120	719.02
120-130	913.11
130-140	950.72
140-150	835.76
150-160	616.80
160-170	359.98
170-180	115.77

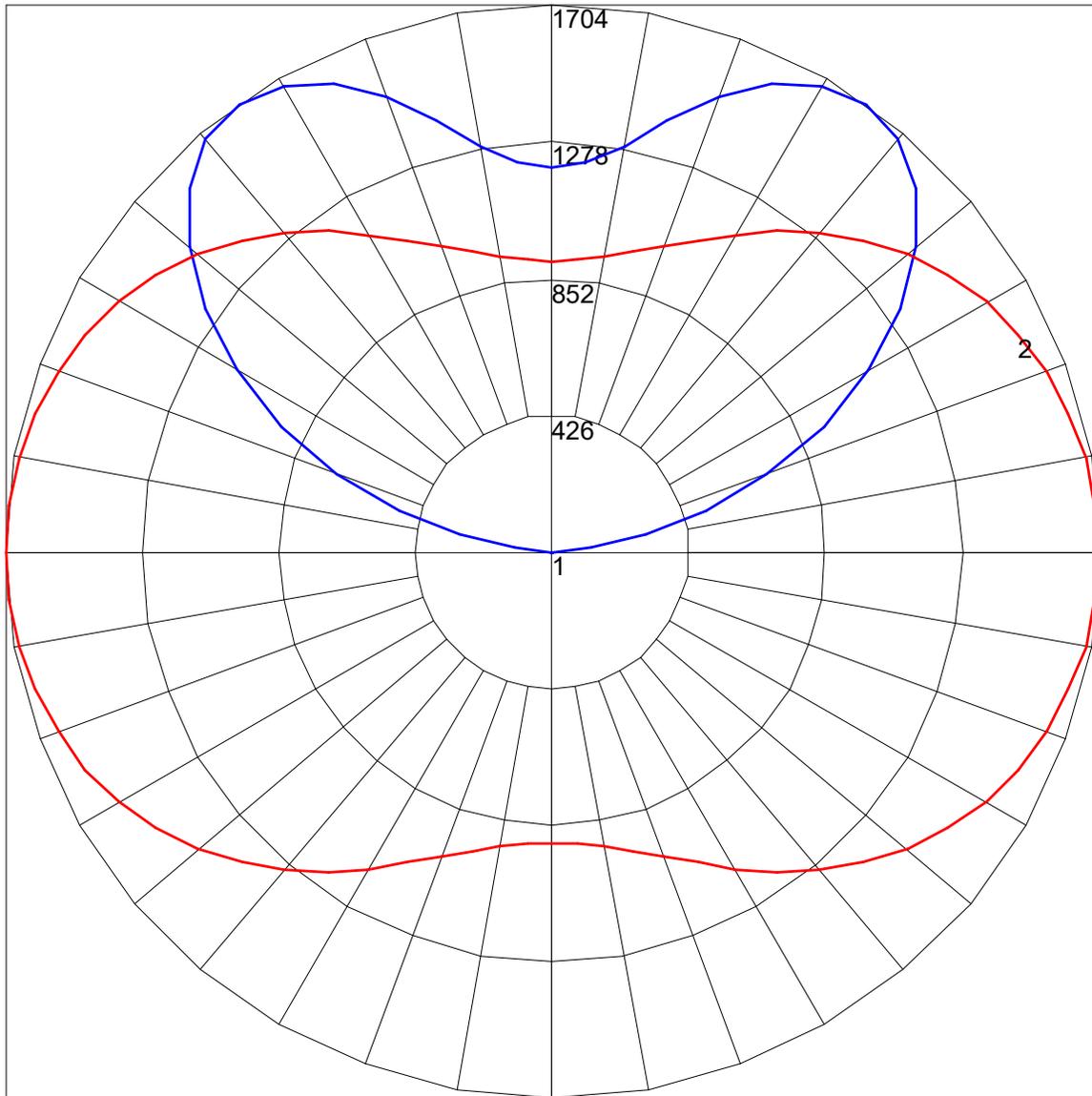
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	28	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 1704.3 Located At Horizontal Angle = 0, Vertical Angle = 145
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (145) (Through Max. Cd.)