

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	88	91	93	94
Total Lumens, 4' rail length (1219mm)	4303	4438	4529	4620
Lumens per foot (305mm)	1076	1110	1132	1155
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_RR_HO_359_G1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L011800113 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 1/12/2018
[MANUFAC] Vode Lighting
[LUMCAT] 107-RR-48-Z-HO-359-G1
[LUMINAIRE] RaceRail LED, 48", 3500K, 90 CRI, zipper board,
[MORE] 120° batwing lens, high output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4529
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	49.22
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)	0.08 ft
Luminous Width (90-270)	3.85 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

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	106.818	107.293	108.699	110.751	113.202	115.729	116.983	116.755	113.677	107.046
100	269.154	269.629	270.807	272.156	273.581	274.132	272.935	268.755	260.167	245.803
105	448.533	448.856	450.110	451.858	452.960	453.036	450.034	442.947	429.134	406.334
110	646.076	646.456	647.729	648.679	649.154	647.558	642.276	631.389	611.439	577.676
115	852.910	853.138	853.765	854.012	852.739	848.483	838.869	821.427	791.540	745.541
120	1060.846	1060.694	1059.744	1057.293	1052.011	1041.903	1025.259	997.576	955.605	896.914
125	1248.756	1247.882	1244.006	1238.021	1227.134	1210.091	1185.087	1147.296	1093.507	1022.751
130	1398.153	1396.177	1390.116	1379.533	1362.889	1338.683	1305.224	1257.420	1193.371	1114.958
135	1495.034	1492.811	1484.375	1470.106	1448.959	1418.901	1378.830	1325.345	1257.591	1176.803
140	1546.144	1543.066	1533.452	1517.112	1493.058	1459.846	1417.571	1361.483	1292.532	1212.390
145	1560.660	1556.708	1546.296	1528.873	1503.546	1468.529	1424.183	1366.993	1298.213	1221.776
150	1536.359	1532.977	1521.444	1502.672	1475.065	1437.996	1392.548	1337.334	1272.962	1204.885
155	1459.998	1456.369	1445.406	1426.406	1399.654	1364.865	1323.996	1275.014	1221.225	1166.942
160	1336.783	1333.705	1323.768	1308.777	1287.003	1259.643	1229.110	1194.074	1156.682	1119.689
165	1198.425	1196.772	1190.996	1181.705	1169.241	1153.528	1136.029	1115.756	1095.008	1074.013
170	1089.251	1088.529	1085.774	1081.822	1076.464	1069.757	1062.271	1053.740	1044.829	1035.994
175	1024.708	1024.955	1024.328	1023.530	1022.580	1021.326	1019.673	1018.096	1016.424	1014.372
180	1007.000	1007.000	1007.000	1007.000	1007.000	1007.000	1007.000	1007.000	1007.000	1007.000

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>
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	96.862	84.569	72.333	62.947	57.190	54.036	52.231	51.034	49.704
100	223.953	197.923	172.292	152.722	140.581	133.950	130.169	127.946	126.692
105	371.070	328.947	288.097	255.740	235.638	224.276	218.120	214.966	213.617
110	527.421	468.502	409.564	363.812	333.925	317.433	308.826	304.893	303.544
115	679.288	603.079	528.770	469.604	430.863	408.063	395.998	390.564	389.215
120	815.518	726.522	639.369	568.993	521.816	493.107	478.116	471.181	469.053
125	932.102	832.238	735.756	657.818	604.105	570.893	552.748	544.141	541.785
130	1017.298	916.085	815.822	736.003	677.787	641.022	620.350	610.565	607.734
135	1078.839	979.203	883.823	803.833	744.838	706.021	682.993	671.859	668.306
140	1119.214	1024.157	934.477	861.270	805.258	766.612	742.235	729.999	726.066
145	1136.105	1051.384	972.496	908.447	857.945	821.427	798.000	785.612	780.957
150	1132.628	1061.074	997.424	944.015	902.291	870.257	849.281	837.368	833.340
155	1110.702	1058.642	1011.693	970.520	937.859	912.931	895.983	885.875	881.942
160	1082.924	1047.831	1015.968	988.190	965.238	947.644	935.978	928.169	925.946
165	1052.011	1032.289	1014.068	998.678	986.062	975.251	967.765	962.787	961.134
170	1027.311	1019.198	1011.617	1004.758	998.754	993.795	990.166	987.867	987.487
175	1012.244	1010.591	1008.938	1007.437	1006.107	1004.606	1003.960	1003.181	1003.257
180	1007.000	1007.000	1007.000	1007.000	1007.000	1007.000	1007.000	1007.000	1007.000

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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	488.90	N.A.	10.80
90-120	1146.53	N.A.	25.30
90-130	1983.35	N.A.	43.80
90-150	3585.2	N.A.	79.20
90-180	4528.98	N.A.	100.00
110-180	4040.08	N.A.	89.20
0-180	4528.98	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	107.74
100-110	381.16
110-120	657.63
120-130	836.82
130-140	858.40
140-150	743.46
150-160	539.34
160-170	306.89
170-180	97.55

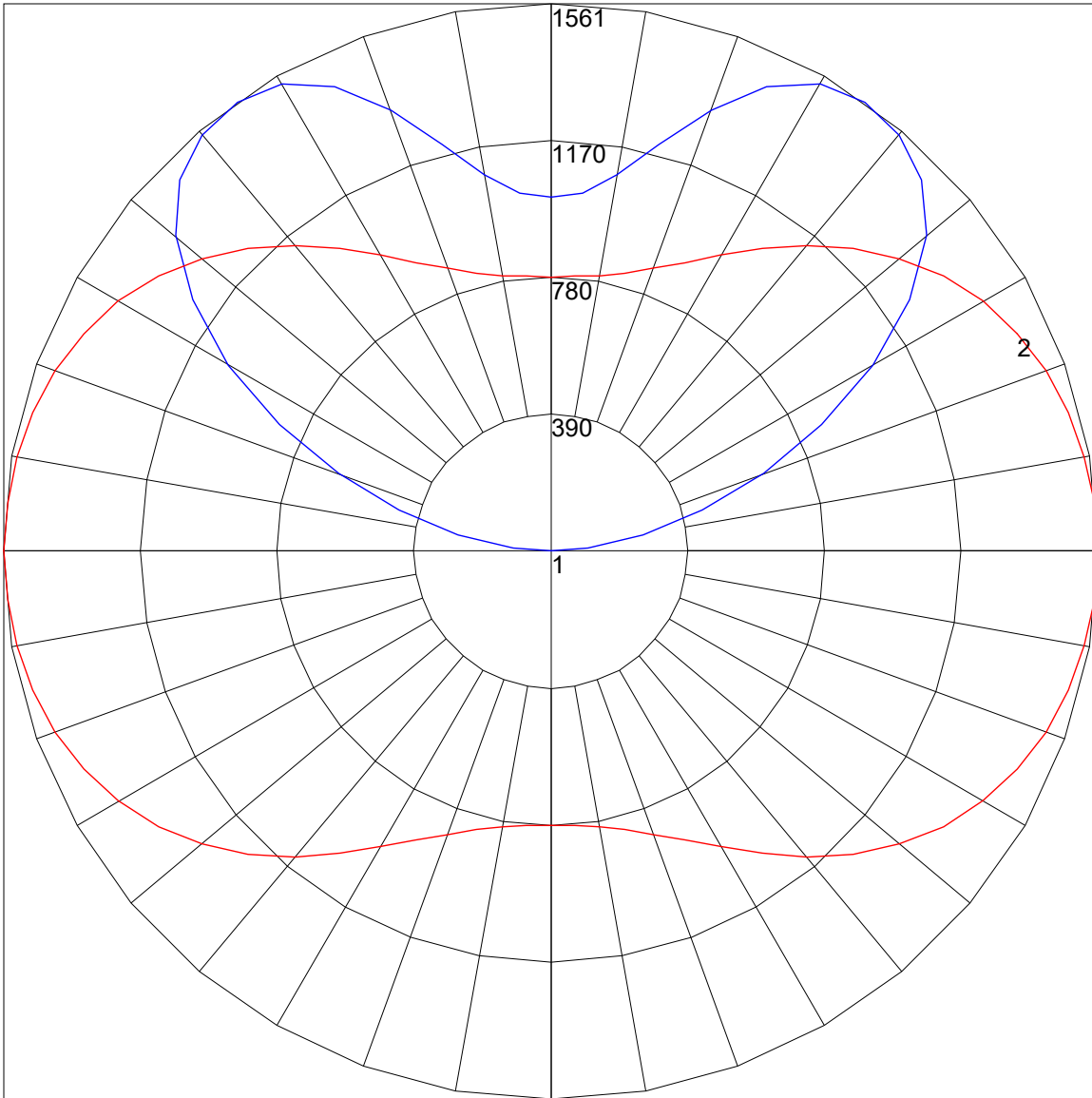
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1560.66 Located At Horizontal Angle = 0, Vertical Angle = 145
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (145) (Through Max. Cd.)