

IES Report

RaceRail® | 107 | 120° Batwing Lens | 80 CRI | HO

107-RR-XX-4-48-XX-XX-XX-XX-X-X-Z-HO-35-G1-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	102	105	107	109
Total Lumens, 4' rail length (1219mm)	4991	5149	5254	5359
Lumens per foot (305mm)	1248	1287	1313	1340
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_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-35-G1
[LUMINAIRE] RaceRail LED, 48", 3500K, 80 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	5254
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
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	123.909	124.460	126.091	128.471	131.314	134.246	135.700	135.436	131.865	124.173
100	312.219	312.770	314.136	315.701	317.354	317.993	316.605	311.756	301.794	285.131
105	520.298	520.673	522.128	524.155	525.434	525.522	522.039	513.819	497.795	471.347
110	749.448	749.889	751.366	752.468	753.019	751.167	745.040	732.411	709.269	670.104
115	989.376	989.640	990.367	990.654	989.177	984.240	973.088	952.855	918.186	864.828
120	1230.581	1230.405	1229.303	1226.460	1220.333	1208.607	1189.300	1157.188	1108.502	1040.420
125	1448.557	1447.543	1443.047	1436.104	1423.475	1403.706	1374.701	1330.863	1268.468	1186.391
130	1621.857	1619.565	1612.535	1600.258	1580.951	1552.872	1514.060	1458.607	1384.310	1293.351
135	1734.239	1731.661	1721.875	1705.323	1680.792	1645.925	1599.443	1537.400	1458.806	1365.091
140	1793.527	1789.957	1778.804	1759.850	1731.947	1693.421	1644.382	1579.320	1499.337	1406.372
145	1810.366	1805.781	1793.703	1773.493	1744.113	1703.494	1652.052	1585.712	1505.927	1417.260
150	1782.176	1778.253	1764.875	1743.100	1711.075	1668.075	1615.356	1551.307	1476.636	1397.667
155	1693.598	1689.388	1676.671	1654.631	1623.599	1583.243	1535.835	1479.016	1416.621	1353.653
160	1550.668	1547.098	1535.571	1518.181	1492.923	1461.186	1425.768	1385.126	1341.751	1298.839
165	1390.173	1388.256	1381.555	1370.778	1356.320	1338.092	1317.794	1294.277	1270.209	1245.855
170	1263.531	1262.694	1259.498	1254.914	1248.698	1240.918	1232.234	1222.338	1212.002	1201.753
175	1188.661	1188.948	1188.220	1187.295	1186.193	1184.738	1182.821	1180.991	1179.052	1176.672
180	1168.120	1168.120	1168.120	1168.120	1168.120	1168.120	1168.120	1168.120	1168.120	1168.120

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	112.360	98.100	83.906	73.019	66.340	62.682	60.588	59.199	57.657
100	259.785	229.591	199.859	177.158	163.074	155.382	150.996	148.417	146.963
105	430.441	381.579	334.193	296.658	273.340	260.160	253.019	249.361	247.796
110	611.808	543.462	475.094	422.022	387.353	368.222	358.238	353.676	352.111
115	787.974	699.572	613.373	544.741	499.801	473.353	459.358	453.054	451.489
120	946.001	842.766	741.668	660.032	605.307	572.004	554.615	546.570	544.101
125	1081.238	965.396	853.477	763.069	700.762	662.236	641.188	631.204	628.471
130	1180.066	1062.659	946.354	853.763	786.233	743.586	719.606	708.255	704.971
135	1251.453	1135.875	1025.235	932.446	864.012	818.984	792.272	779.356	775.235
140	1298.288	1188.022	1083.993	999.073	934.099	889.270	860.993	846.799	842.237
145	1317.882	1219.605	1128.095	1053.799	995.216	952.855	925.680	911.310	905.910
150	1313.848	1230.846	1157.012	1095.057	1046.658	1009.498	985.166	971.347	966.674
155	1288.414	1228.025	1173.564	1125.803	1087.916	1059.000	1039.340	1027.615	1023.053
160	1256.192	1215.484	1178.523	1146.300	1119.676	1099.267	1085.734	1076.676	1074.097
165	1220.333	1197.455	1176.319	1158.466	1143.832	1131.291	1122.607	1116.833	1114.915
170	1191.681	1182.270	1173.476	1165.519	1158.555	1152.802	1148.593	1145.926	1145.485
175	1174.203	1172.286	1170.368	1168.627	1167.084	1165.343	1164.594	1163.690	1163.778
180	1168.120	1168.120	1168.120	1168.120	1168.120	1168.120	1168.120	1168.120	1168.120

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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	567.12	N.A.	10.80
90-120	1329.97	N.A.	25.30
90-130	2300.68	N.A.	43.80
90-150	4158.83	N.A.	79.20
90-180	5253.61	N.A.	100.00
110-180	4686.49	N.A.	89.20
0-180	5253.61	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	124.98
100-110	442.14
110-120	762.85
120-130	970.71
130-140	995.74
140-150	862.41
150-160	625.63
160-170	355.99
170-180	113.16

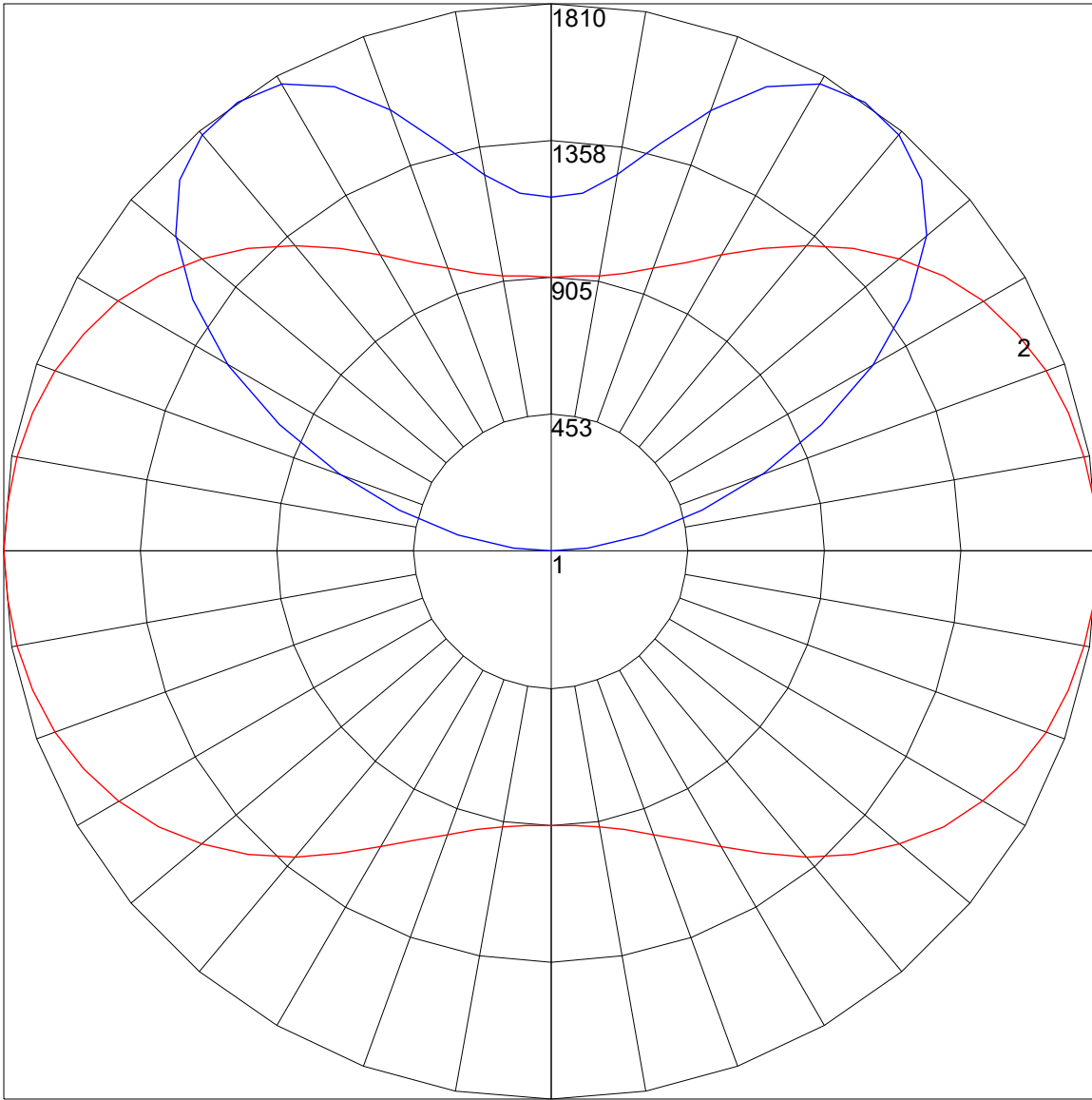
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	27	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 = 1810.366 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.)