

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	110	113	115	118
Total Lumens, 4' rail length (1219mm)	2627	2710	2765	2820
Lumens per foot (305mm)	657	677	691	705
Input Power (W), 4' rail length (1219mm)	24.1	24.1	24.1	24.1
Watts per foot (305mm)	6.1	6.1	6.1	6.1
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_SO_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-SO-35-G1
[LUMINAIRE] RaceRail LED, 48", 3500K, 80 CRI, zipper board,
[MORE] 120° batwing lens, standard output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2765
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	24.06
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)	0.08 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	65.215	65.505	66.364	67.616	69.113	70.656	71.421	71.282	69.403	65.354
100	164.326	164.616	165.335	166.158	167.028	167.365	166.634	164.082	158.839	150.069
105	273.841	274.038	274.804	275.871	276.544	276.590	274.758	270.431	261.998	248.078
110	394.446	394.678	395.456	396.036	396.326	395.351	392.126	385.480	373.300	352.686
115	520.724	520.863	521.246	521.397	520.620	518.021	512.152	501.503	483.256	455.172
120	647.674	647.582	647.002	645.505	642.280	636.109	625.948	609.046	583.422	547.590
125	762.398	761.865	759.498	755.844	749.198	738.792	723.527	700.454	667.615	624.416
130	853.609	852.403	848.702	842.241	832.080	817.301	796.874	767.688	728.584	680.711
135	912.758	911.400	906.250	897.538	884.628	866.276	841.812	809.158	767.792	718.469
140	943.962	942.082	936.213	926.237	911.551	891.274	865.464	831.221	789.125	740.196
145	952.824	950.411	944.054	933.417	917.954	896.576	869.501	834.585	792.593	745.926
150	937.988	935.923	928.882	917.421	900.566	877.934	850.187	816.478	777.177	735.614
155	891.367	889.152	882.458	870.858	854.526	833.286	808.334	778.430	745.590	712.449
160	816.141	814.262	808.195	799.043	785.749	769.045	750.404	729.014	706.185	683.600
165	731.670	730.661	727.134	721.462	713.852	704.259	693.576	681.198	668.531	655.713
170	665.016	664.576	662.894	660.481	657.210	653.115	648.544	643.336	637.896	632.502
175	625.611	625.762	625.379	624.892	624.312	623.546	622.537	621.574	620.554	619.301
180	614.800	614.800	614.800	614.800	614.800	614.800	614.800	614.800	614.800	614.800

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	59.137	51.632	44.161	38.431	34.916	32.990	31.888	31.158	30.346
100	136.729	120.837	105.189	93.241	85.828	81.780	79.472	78.114	77.349
105	226.548	200.831	175.891	156.136	143.863	136.926	133.168	131.242	130.419
110	322.004	286.033	250.050	222.117	203.870	193.801	188.546	186.145	185.322
115	414.723	368.196	322.828	286.706	263.053	249.133	241.767	238.450	237.626
120	497.895	443.561	390.352	347.385	318.582	301.055	291.902	287.668	286.369
125	569.073	508.103	449.198	401.615	368.822	348.545	337.467	332.212	330.774
130	621.087	559.294	498.081	449.349	413.807	391.361	378.740	372.766	371.038
135	658.660	597.829	539.597	490.761	454.743	431.044	416.985	410.188	408.018
140	683.310	625.275	570.523	525.828	491.631	468.037	453.154	445.684	443.282
145	693.622	641.898	593.734	554.631	523.798	501.503	487.200	479.637	476.795
150	691.499	647.814	608.954	576.346	550.872	531.315	518.508	511.235	508.776
155	678.113	646.329	617.665	592.528	572.588	557.368	547.021	540.850	538.449
160	661.154	639.728	620.275	603.316	589.303	578.562	571.439	566.672	565.314
165	642.280	630.240	619.115	609.719	602.017	595.416	590.846	587.807	586.798
170	627.200	622.247	617.619	613.431	609.766	606.738	604.522	603.119	602.887
175	618.002	616.992	615.983	615.067	614.255	613.338	612.944	612.468	612.515
180	614.800	614.800	614.800	614.800	614.800	614.800	614.800	614.800	614.800

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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	298.48	N.A.	10.80
90-120	699.98	N.A.	25.30
90-130	1210.89	N.A.	43.80
90-150	2188.86	N.A.	79.20
90-180	2765.06	N.A.	100.00
110-180	2466.57	N.A.	89.20
0-180	2765.06	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	65.78
100-110	232.71
110-120	401.50
120-130	510.90
130-140	524.07
140-150	453.90
150-160	329.28
160-170	187.36
170-180	59.56

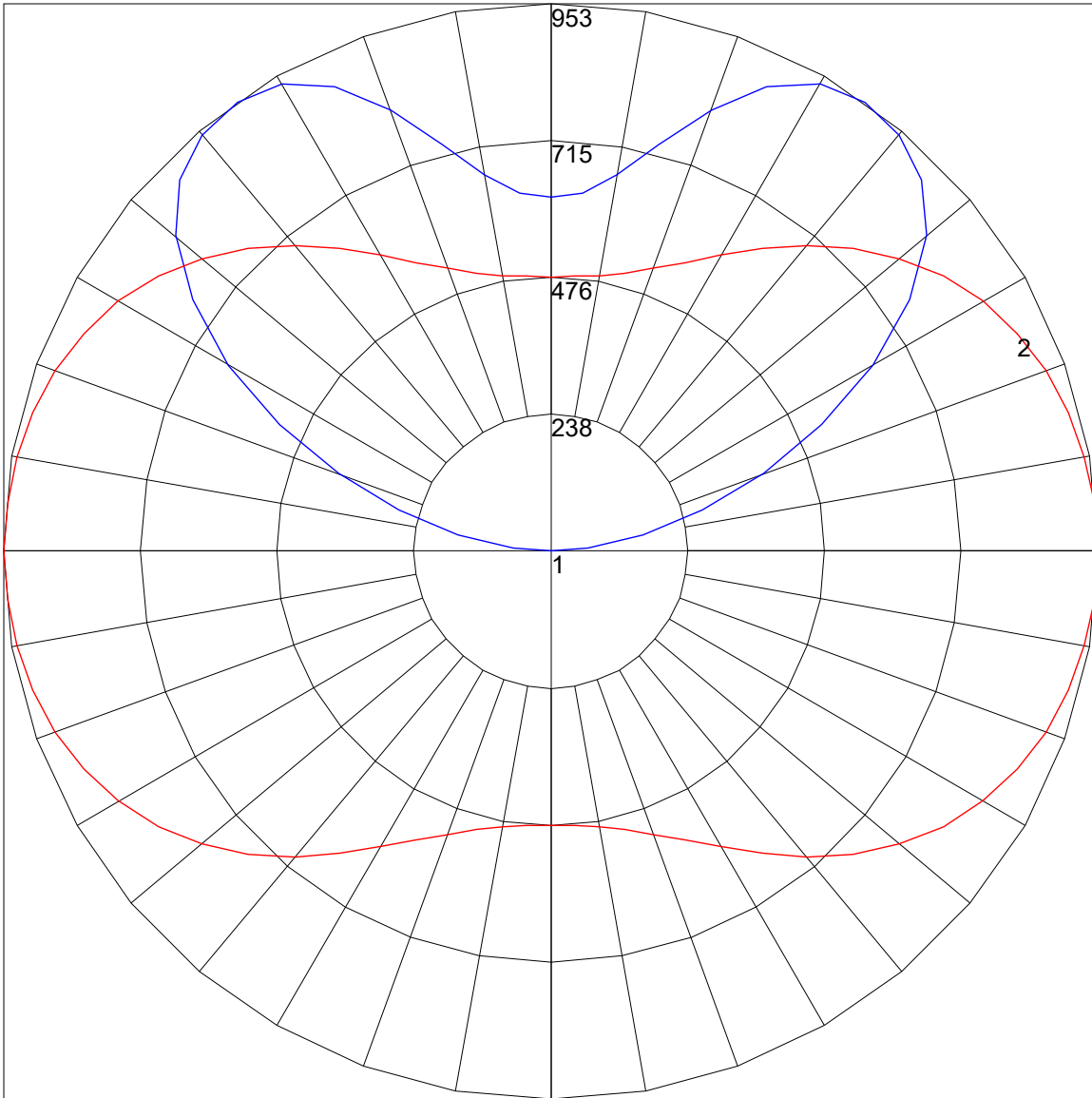
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 952.824 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.)