

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	107	110	113	115
Total Lumens, 4' rail length (1219mm)	2563	2644	2698	2752
Lumens per foot (305mm)	641	661	675	688
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_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
[ISSUE DATE] 11/1/2017
[MANUFAC] Vode Lighting
[LUMCAT] 107-RR-48-Z-SO-35-G2
[LUMINAIRE] RaceRail LED, 48", 3500K, 80 CRI, zipper board,
[MORE] 120° flywing lens, standard output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2691
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	24.08
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	53672	47451	31132
55	50235	45403	29386
65	38007	37475	28296
75	21950	25564	24696
85	9522	12260	12785

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	888.457	888.457	888.457	888.457	888.457	888.457	888.457	888.457	888.457	888.457
5	893.413	893.413	893.118	892.776	892.186	891.549	890.865	890.086	889.154	888.269
10	910.063	909.721	908.600	907.184	905.025	902.134	899.089	895.372	891.549	887.431
15	929.474	928.684	926.772	923.787	919.480	914.429	908.057	900.812	892.729	884.245
20	944.071	943.233	940.590	936.578	930.347	922.854	913.591	902.771	890.369	877.141
25	947.988	947.151	944.366	939.469	932.412	923.102	911.928	898.216	882.345	864.751
30	938.879	937.852	934.713	929.474	921.627	911.585	899.195	883.667	865.188	844.172
35	914.677	913.650	910.559	905.461	897.579	887.242	874.156	857.695	837.658	814.047
40	872.740	872.055	869.164	864.503	857.305	847.653	834.626	818.011	797.586	772.593
45	811.002	810.223	807.970	804.347	798.317	790.093	778.375	762.705	742.220	716.992
50	726.550	726.054	724.780	722.479	718.514	712.295	702.643	688.719	669.957	645.613
55	615.724	615.724	615.724	615.630	614.402	611.216	604.797	594.165	578.401	556.500
60	482.856	483.352	484.532	486.243	487.659	487.954	485.558	479.340	467.917	451.315
65	343.238	343.923	345.929	348.725	352.100	354.944	356.218	354.460	348.430	338.436
70	219.291	219.869	221.781	224.672	228.200	231.929	235.068	236.330	235.115	231.339
75	121.398	121.847	123.463	125.859	129.139	132.821	136.243	139.087	140.609	141.388
80	55.259	55.413	55.897	56.734	58.009	59.472	61.384	63.637	66.387	69.077
85	17.735	17.830	18.030	18.467	19.057	19.895	20.626	21.464	22.196	22.833
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	50	55	60	65	70	75	80	85	90
0	888.457	888.457	888.457	888.457	888.457	888.457	888.457	888.457	888.457
5	887.384	886.451	885.578	884.693	884.150	883.608	883.218	883.077	882.923
10	883.265	879.006	875.041	871.371	868.374	865.683	863.772	862.639	862.250
15	875.241	865.931	857.211	848.680	841.434	835.204	830.602	827.864	826.979
20	862.698	847.653	832.950	818.306	805.810	794.836	786.753	781.762	779.945
25	844.668	823.994	802.778	781.420	762.799	746.385	734.043	726.349	723.210
30	819.534	793.373	766.127	738.114	713.463	691.468	675.054	664.812	660.800
35	786.022	755.353	722.632	689.073	659.183	632.822	612.986	600.832	596.325
40	741.736	707.976	671.621	634.049	600.986	572.029	550.222	536.853	532.050
45	685.344	649.873	612.007	573.492	539.697	510.149	488.496	475.269	470.419
50	614.603	579.911	543.862	507.211	476.000	449.155	429.414	417.413	413.094
55	528.817	497.559	466.301	435.491	409.720	388.409	372.927	363.464	360.183
60	429.367	405.755	382.816	360.974	342.259	326.966	316.582	310.800	308.747
65	324.866	310.505	296.982	284.498	274.114	264.698	258.821	256.473	255.541
70	225.710	220.023	214.583	209.485	205.379	201.402	198.323	198.275	198.122
75	140.750	140.314	139.582	138.792	138.355	137.269	135.464	135.606	136.585
80	71.626	73.632	74.812	75.496	75.839	75.638	74.812	73.384	74.659
85	23.364	23.470	23.470	24.402	25.276	25.429	24.886	23.659	23.812
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	333.87	N.A.	12.40
0-30	725.78	N.A.	27.00
0-40	1215.86	N.A.	45.20
0-60	2198.91	N.A.	81.70
0-80	2660.92	N.A.	98.90
0-90	2691.1	N.A.	100.00
10-90	2606.37	N.A.	96.90
20-40	881.99	N.A.	32.80
20-50	1402.8	N.A.	52.10
40-70	1298.55	N.A.	48.30
60-80	462.00	N.A.	17.20
70-80	146.51	N.A.	5.40
80-90	30.18	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	2691.1	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	84.74
10-20	249.13
20-30	391.91
30-40	490.08
40-50	520.81
50-60	462.25
60-70	315.49
70-80	146.51
80-90	30.18
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

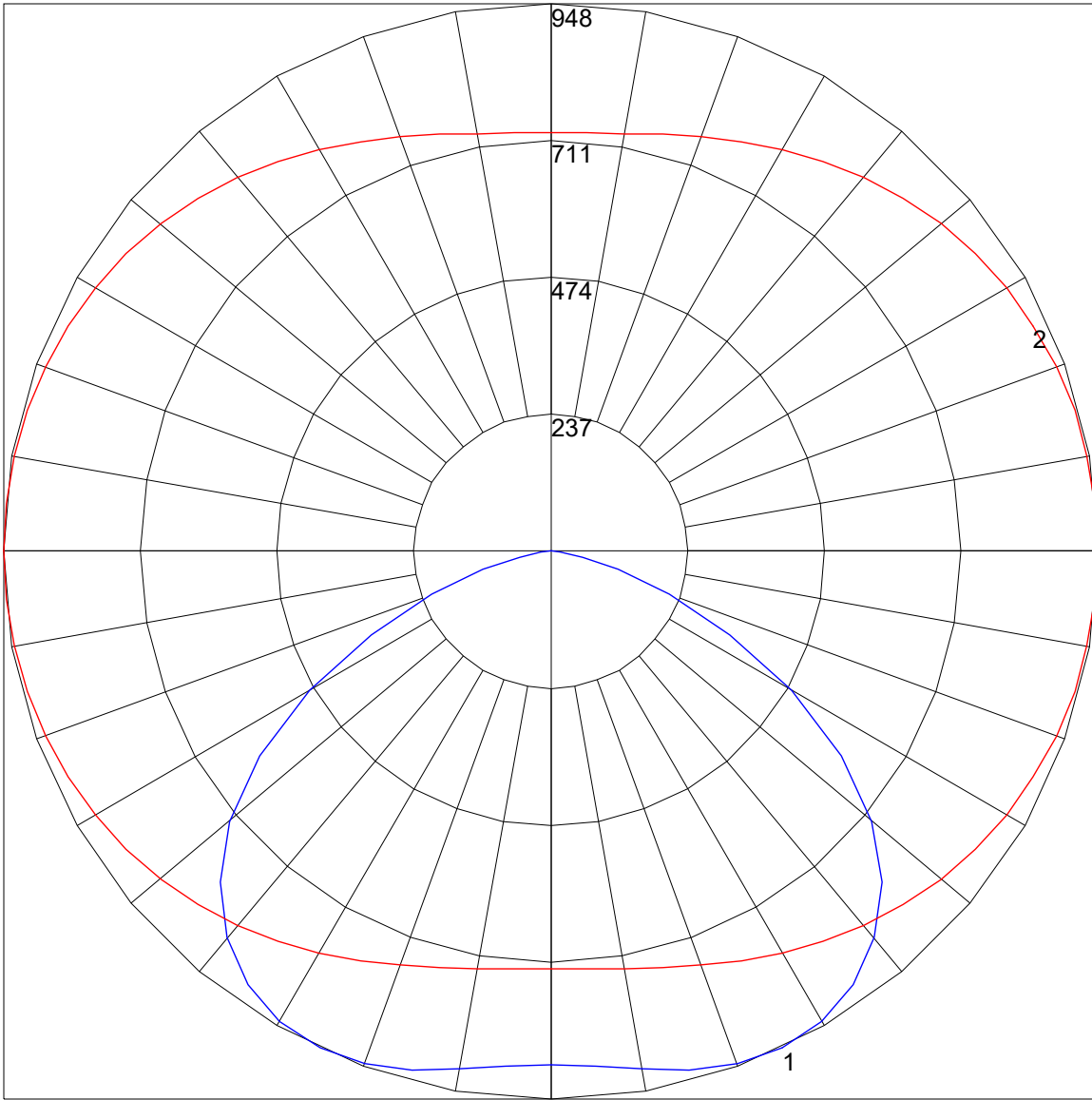
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 947.988 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.)