

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	124	128	131	131
Total Lumens, 4' rail length (1219mm)	2963	3057	3119	3119
Lumens per foot (305mm)	741	764	780	780
Input Power (W), 4' rail length (1219mm)	23.9	23.9	23.9	23.9
Watts per foot (305mm)	6.0	6.0	6.0	6.0
CRI	82	82	82	82

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] L121911516 (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-SO-35-G2-AL
[LUMINAIRE] RaceRail LED, 48", 3500K, 80 CRI, zipper board, 120° flying lens,
[MORE] standard 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	3120
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	23.92
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.64
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.56
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	52533	47095	33382
55	48662	45271	32215
65	39553	39240	29934
75	19360	27032	23823
85	2545	3706	10804

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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	960.399	960.399	960.399	960.399	960.399	960.399	960.399	960.399	960.399	960.399
5	969.342	969.586	969.250	968.960	968.275	967.452	966.570	965.607	964.389	963.078
10	1001.045	1001.045	999.584	997.496	994.236	990.489	986.023	980.966	975.525	970.073
15	1045.775	1045.137	1042.422	1037.701	1030.892	1022.679	1013.005	1002.600	990.930	978.878
20	1087.581	1086.363	1082.280	1075.726	1065.808	1053.895	1039.650	1022.876	1004.734	985.780
25	1110.723	1109.702	1105.236	1097.499	1086.468	1072.223	1054.811	1034.256	1010.720	985.049
30	1107.127	1105.666	1101.582	1094.054	1083.359	1069.010	1050.635	1028.514	1002.356	972.892
35	1073.974	1073.139	1069.497	1063.326	1053.500	1040.764	1023.456	1002.066	975.757	944.982
40	1013.098	1012.668	1009.989	1005.175	997.878	987.241	972.648	953.102	927.977	897.979
45	928.510	927.780	926.074	923.163	917.862	909.788	898.269	881.983	860.105	832.393
50	821.350	821.060	820.480	818.774	816.489	811.234	802.975	790.482	772.688	748.815
55	697.670	697.763	698.158	698.158	697.566	695.234	690.420	681.674	668.253	649.055
60	561.637	561.881	563.145	564.410	565.720	565.860	564.259	559.306	550.304	536.013
65	417.820	418.261	420.013	422.681	425.801	428.086	429.107	427.936	423.319	414.514
70	271.486	272.020	274.885	278.968	284.119	289.084	293.016	295.406	295.011	291.322
75	125.245	126.069	129.711	135.650	143.666	152.470	160.834	168.165	172.979	174.882
80	24.499	24.650	25.822	27.805	31.216	36.076	42.932	51.829	61.642	70.644
85	5.545	5.545	5.591	5.742	5.928	6.078	6.322	6.763	7.192	8.074
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**

	<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	960.399	960.399	960.399	960.399	960.399	960.399	960.399	960.399	960.399
5	961.617	960.445	959.134	958.021	956.896	956.316	955.921	955.341	954.668
10	964.285	958.647	953.938	949.657	945.226	941.827	939.983	938.672	937.257
15	966.570	954.900	943.289	933.023	924.566	917.711	912.410	909.544	908.187
20	965.503	945.574	926.852	909.498	895.346	883.874	875.417	870.452	868.701
25	958.067	930.065	903.756	878.920	858.493	841.963	830.154	823.252	820.862
30	940.319	905.948	872.796	841.093	814.981	793.927	779.149	770.402	766.992
35	909.011	871.334	832.578	795.725	765.786	740.985	723.295	713.075	709.723
40	861.613	822.521	781.921	742.493	710.013	683.669	664.808	654.205	650.319
45	798.498	759.800	718.423	680.502	647.489	621.528	603.444	593.236	590.022
50	717.947	682.741	645.308	608.942	579.629	556.092	539.806	530.619	527.510
55	623.094	592.899	560.999	530.085	505.041	485.112	471.842	464.499	461.866
60	516.328	492.838	467.851	443.596	424.096	409.120	399.156	393.808	392.150
65	401.488	385.004	368.138	351.561	338.279	328.025	321.274	317.422	316.216
70	284.757	275.662	266.034	256.557	248.774	242.707	238.612	236.385	235.608
75	174.197	171.529	167.980	164.082	160.637	157.714	155.776	154.512	154.118
80	77.210	80.759	82.116	82.267	81.826	81.049	80.411	79.878	79.541
85	9.582	12.354	16.089	20.416	23.049	24.024	24.116	23.873	23.536
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	369.15	N.A.	11.80
0-30	818.37	N.A.	26.20
0-40	1390.37	N.A.	44.60
0-60	2543.78	N.A.	81.50
0-80	3096.66	N.A.	99.30
0-90	3119.65	N.A.	100.00
10-90	3027.52	N.A.	97.00
20-40	1021.22	N.A.	32.70
20-50	1630.6	N.A.	52.30
40-70	1536.97	N.A.	49.30
60-80	552.89	N.A.	17.70
70-80	169.32	N.A.	5.40
80-90	22.98	N.A.	0.70
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	3119.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	92.12
10-20	277.03
20-30	449.22
30-40	572.00
40-50	609.38
50-60	544.02
60-70	383.57
70-80	169.32
80-90	22.98
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

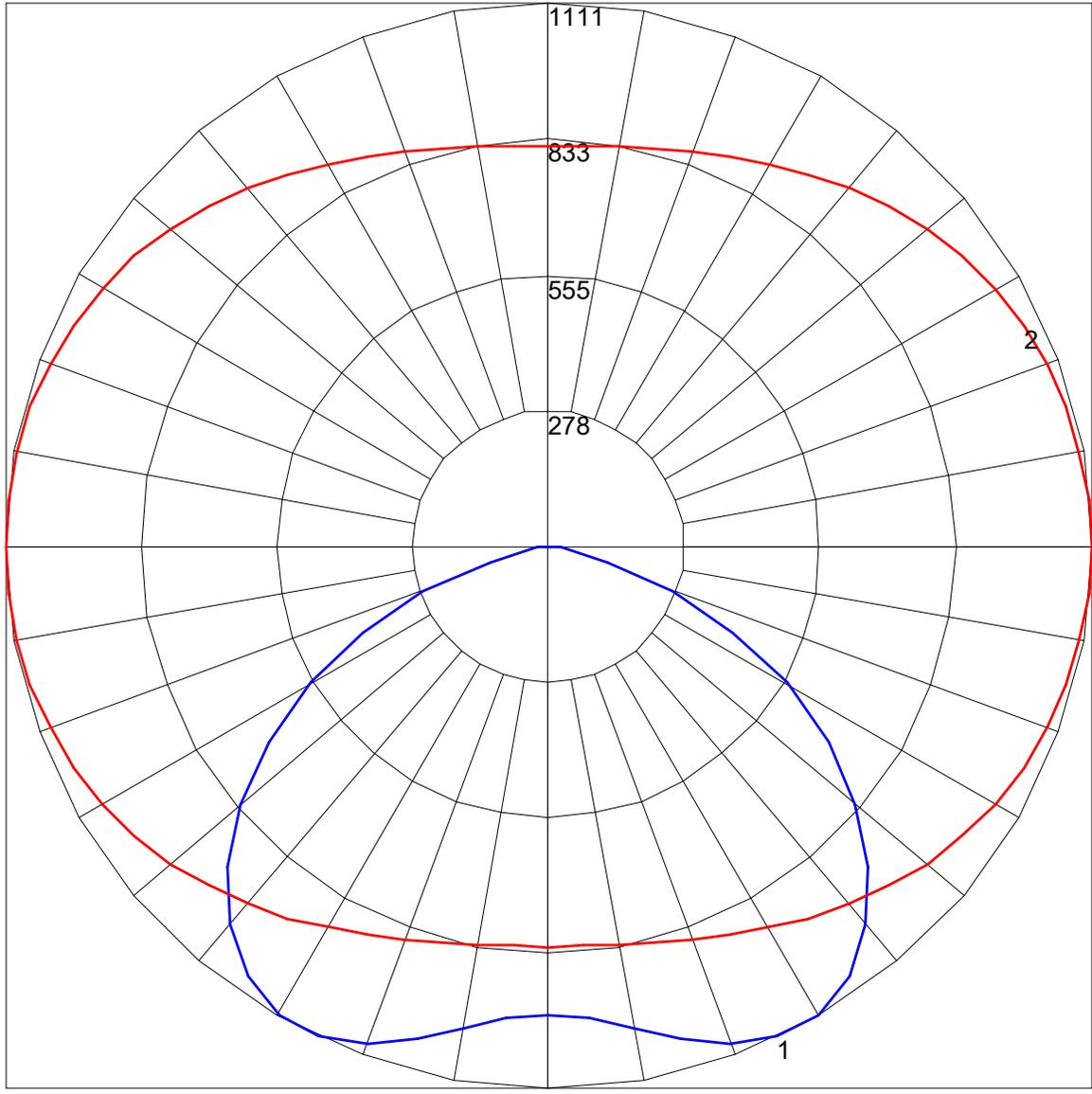
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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	90	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	67	63	70	66	62	60
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1110.723 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)