

IES Report

DoubleRace™ | 107 | Diffuse, Round, up | Diffuse, Round, down | 80 CRI | SO

107-DR-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-22-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	118	122	124	126
Total Lumens, 4' rail length (1219mm)	5662	5841	5960	6079
Lumens per foot (305mm)	1416	1460	1490	1520
Lumens per foot UP (305mm)	710	733	748	763
Lumens per foot DOWN (305mm)	705	727	742	757
Input Power (W), 4' rail length (1219mm)	48.3	48.3	48.3	48.3
Watts per foot (305mm)	12.1	12.1	12.1	12.1
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_DR_SO_35_22.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L071704220 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 11/1/2017
[MANUFAC] Vode Lighting
[LUMCAT] 107-DR-48-Z-SO-35-22
[LUMINAIRE] DoubleRace LED, 48", 3500K, 80 CRI, zipper board,
[MORE] round diffuse lens up/round diffuse lens down, standard output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5944
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	48.26
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.06 ft
Luminous Width (90-270)	3.75 ft
Luminous Height	0.21 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10610	13051	39016
55	7105	9058	31321
65	4555	5797	25326
75	2889	3653	18932
85	1827	2310	11434

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	1125.236	1125.236	1125.236	1125.236	1125.236	1125.236	1125.236	1125.236	1125.236	1125.236
5	1120.339	1119.726	1119.124	1118.711	1118.262	1117.873	1117.543	1117.283	1117.082	1116.953
10	1105.247	1104.126	1103.394	1102.816	1102.498	1102.415	1102.545	1100.893	1099.677	1098.816
15	1080.856	1079.275	1078.614	1078.367	1078.048	1075.641	1073.930	1072.950	1072.679	1071.334
20	1045.681	1043.604	1043.273	1042.825	1040.170	1038.660	1037.562	1034.825	1033.385	1031.320
25	1000.015	998.091	998.020	995.389	993.784	991.365	988.816	988.226	983.082	979.105
30	942.596	940.708	940.094	937.734	935.657	933.120	930.560	926.099	922.276	917.214
35	873.424	871.725	870.356	869.542	866.769	864.503	862.155	855.712	851.264	845.234
40	794.942	793.692	792.099	790.470	788.948	786.836	781.833	777.372	772.109	765.372
45	706.360	705.982	704.944	703.976	702.407	700.708	696.471	693.439	685.320	678.594
50	609.258	608.774	608.880	609.305	609.175	608.007	606.508	602.933	595.900	587.723
55	511.471	511.235	512.734	513.843	513.052	510.857	510.940	507.471	504.450	499.081
60	418.688	419.006	420.351	416.422	411.808	411.289	411.702	412.375	410.168	406.416
65	342.554	342.224	333.822	328.099	327.474	328.488	330.412	330.306	329.173	327.686
70	275.436	268.179	259.777	260.957	264.804	266.704	265.889	264.226	262.916	259.777
75	219.976	205.237	209.780	211.196	211.149	211.244	210.170	209.592	209.025	205.403
80	170.982	168.882	171.419	172.386	171.513	170.274	168.705	167.147	164.280	159.855
85	136.585	147.854	147.866	148.149	145.718	142.638	137.966	134.119	130.614	125.269
90	137.741	140.951	141.836	142.320	138.650	133.694	127.180	123.357	119.982	114.106
95	148.350	155.300	155.430	154.981	152.255	149.364	145.411	141.435	137.848	131.983
100	179.608	176.622	178.876	179.348	178.558	176.965	174.723	173.354	170.935	167.029
105	226.926	214.064	216.152	217.521	216.931	216.860	215.598	213.828	211.680	206.252
110	276.804	272.403	263.223	262.385	265.618	266.090	265.335	263.813	262.951	259.305
115	338.436	339.038	333.716	328.382	328.158	328.996	330.589	330.601	330.577	328.972
120	418.286	418.452	419.702	416.741	413.165	412.563	410.734	411.608	412.032	407.820
125	510.197	509.854	511.141	512.309	512.214	511.164	511.093	507.447	504.603	498.857
130	607.794	607.440	607.676	607.889	607.865	607.488	606.390	603.358	597.399	589.056
135	705.770	705.640	704.649	703.917	702.619	701.545	698.300	696.306	688.778	682.276
140	797.680	796.724	794.824	792.972	791.544	789.998	785.597	781.479	776.487	769.690
145	877.436	875.961	874.687	873.873	871.111	868.905	866.592	860.775	856.951	851.169
150	947.894	946.336	945.982	943.504	941.392	939.068	936.849	932.719	929.191	924.424
155	1006.481	1004.864	1005.148	1002.469	1000.805	998.540	996.286	995.991	991.141	987.377
160	1053.610	1051.758	1051.592	1051.274	1048.572	1047.156	1046.259	1043.816	1042.731	1040.618
165	1089.671	1088.102	1087.429	1087.205	1086.981	1084.715	1083.110	1082.154	1081.824	1080.373
170	1114.758	1113.696	1112.988	1112.469	1112.197	1112.174	1112.362	1110.663	1109.412	1108.551
175	1129.944	1129.390	1128.847	1128.422	1128.021	1127.655	1127.360	1127.112	1126.935	1126.817
180	1133.980	1133.980	1133.980	1133.980	1133.980	1133.980	1133.980	1133.980	1133.980	1133.980

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	1125.236	1125.236	1125.236	1125.236	1125.236	1125.236	1125.236	1125.236	1125.236
5	1116.894	1116.905	1116.976	1117.118	1117.330	1117.602	1117.885	1118.310	1118.770
10	1098.332	1098.214	1098.415	1097.612	1097.105	1096.916	1097.034	1097.376	1098.202
15	1069.493	1067.357	1065.988	1065.387	1065.623	1064.207	1063.416	1063.156	1064.006
20	1028.417	1025.196	1022.954	1020.063	1018.670	1018.824	1017.018	1016.145	1017.266
25	976.981	972.049	966.715	963.612	959.954	957.582	956.083	954.526	956.119
30	911.857	906.747	901.201	895.042	891.089	886.605	884.870	882.451	884.103
35	838.048	832.242	824.313	817.209	810.424	805.220	801.704	799.013	798.860
40	757.654	748.533	739.164	729.830	721.523	715.835	710.490	706.796	705.286
45	668.376	658.523	649.142	638.144	628.598	620.916	615.228	611.606	609.553
50	578.578	567.639	556.724	544.959	533.655	525.537	519.342	514.386	510.787
55	488.532	477.345	465.368	449.627	435.208	423.585	414.794	409.000	405.944
60	402.828	392.480	378.131	364.396	352.726	343.533	336.701	331.769	330.896

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DR_SO_35_22.IES

CANDELA TABULATION - (Cont.)

65	323.403	314.033	302.611	289.678	277.099	266.007	258.550	252.815	250.833
70	254.255	246.585	235.422	222.454	209.839	197.898	189.720	184.965	182.735
75	199.420	192.010	180.516	166.156	152.515	140.314	129.446	123.770	123.947
80	154.840	146.721	135.016	122.401	107.156	95.840	88.571	82.034	83.780
85	118.861	109.634	98.636	88.417	73.443	59.153	46.173	36.545	34.196
90	106.318	95.828	83.579	70.942	56.192	41.300	27.529	15.682	5.003
95	124.514	116.183	107.345	90.530	75.756	60.381	45.111	36.073	34.102
100	159.005	149.376	137.718	121.800	105.893	95.238	88.701	85.302	84.653
105	198.688	190.676	179.148	165.271	152.196	140.644	130.520	125.104	125.316
110	253.051	245.393	234.572	222.218	210.488	199.939	191.302	185.933	184.694
115	324.075	315.095	303.921	291.330	279.542	269.158	260.579	255.092	256.225
120	402.710	393.459	380.857	367.912	356.738	348.478	342.448	336.760	334.813
125	489.181	478.313	466.714	453.391	439.279	428.281	419.761	413.472	410.451
130	581.032	571.911	560.217	548.511	537.443	528.935	522.185	517.819	516.474
135	672.576	664.175	653.201	642.793	634.451	628.090	621.364	617.128	616.220
140	762.056	753.949	745.064	736.178	728.426	723.033	717.700	714.101	712.637
145	844.715	839.853	831.676	824.749	818.731	813.822	809.869	807.155	807.191
150	919.279	914.406	909.025	902.912	899.207	895.183	893.708	891.183	892.823
155	985.371	980.639	975.388	972.178	968.674	966.951	965.936	964.036	965.240
160	1037.539	1034.305	1032.240	1029.243	1027.568	1027.332	1025.868	1025.349	1026.860
165	1078.485	1076.384	1075.015	1074.390	1074.638	1073.576	1073.281	1073.564	1074.980
170	1108.079	1107.996	1108.244	1107.430	1106.923	1106.734	1106.875	1107.241	1108.091
175	1126.758	1126.758	1126.829	1126.959	1127.148	1127.396	1127.632	1128.045	1128.469
180	1133.980	1133.980	1133.980	1133.980	1133.980	1133.980	1133.980	1133.980	1133.980

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DR_SO_35_22.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	408.11	N.A.	6.90
0-30	858.17	N.A.	14.40
0-40	1383.00	N.A.	23.30
0-60	2327.02	N.A.	39.10
0-80	2835.35	N.A.	47.70
0-90	2960.74	N.A.	49.80
10-90	2854.59	N.A.	48.00
20-40	974.89	N.A.	16.40
20-50	1489.72	N.A.	25.10
40-70	1252.89	N.A.	21.10
60-80	508.32	N.A.	8.60
70-80	199.46	N.A.	3.40
80-90	125.40	N.A.	2.10
90-110	331.62	N.A.	5.60
90-120	641.53	N.A.	10.80
90-130	1072.00	N.A.	18.00
90-150	2117.89	N.A.	35.60
90-180	2983.3	N.A.	50.20
110-180	2651.68	N.A.	44.60
0-180	5944.04	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	106.15
10-20	301.95
20-30	450.06
30-40	524.83
40-50	514.83
50-60	429.20
60-70	308.86
70-80	199.46
80-90	125.40
90-100	129.43
100-110	202.19
110-120	309.91
120-130	430.47
130-140	517.28
140-150	528.62
150-160	453.77
160-170	304.56
170-180	107.07

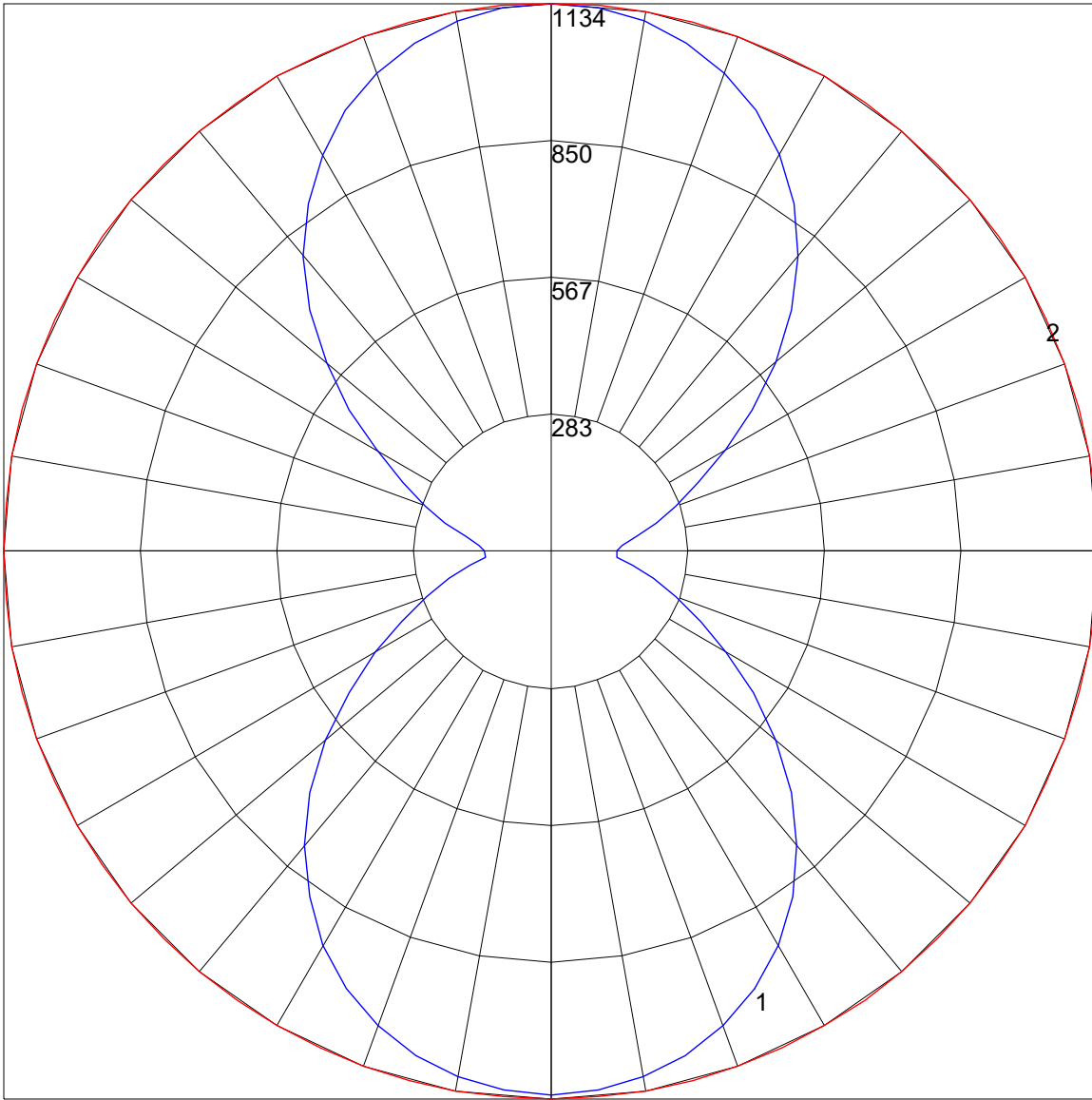
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DR_SO_35_22.IES

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	97	93	89	85	90	86	82	79	72	70	67	60	58	57	49	48	46	41
2	89	81	75	69	81	75	69	65	63	59	56	53	50	47	43	41	39	34
3	81	71	64	58	74	66	59	54	56	51	47	47	43	40	38	35	33	29
4	74	63	55	49	68	58	51	46	50	44	40	42	38	34	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	50	42	36	58	47	40	34	40	34	30	34	29	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	29	24	30	25	21	26	22	19	22	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	13

POLAR GRAPH



Maximum Candela = 1133.98 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)