

IES Report

DoubleRace™ | 107 | Diffuse, Round, up | Diffuse, Round, down | 90 CRI | SO

107-DR-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-359-22-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	102	105	107	109
Total Lumens, 4' rail length (1219mm)	4881	5035	5138	5241
Lumens per foot (305mm)	1220	1259	1285	1310
Lumens per foot UP (305mm)	612	632	645	658
Lumens per foot DOWN (305mm)	608	627	640	653
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	96	96	96	96

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_359_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-359-22
 [LUMINAIRE] DoubleRace LED, 48", 3500K, 90 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	5138
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
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	9171	11281	33726
55	6142	7830	27074
65	3937	5011	21892
75	2497	3157	16365
85	1579	1997	9884

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	972.662	972.662	972.662	972.662	972.662	972.662	972.662	972.662	972.662	972.662
5	968.429	967.898	967.378	967.021	966.634	966.297	966.011	965.787	965.614	965.501
10	955.383	954.414	953.782	953.282	953.006	952.935	953.047	951.619	950.569	949.824
15	934.300	932.933	932.362	932.147	931.872	929.791	928.312	927.466	927.231	926.068
20	903.893	902.098	901.813	901.425	899.130	897.824	896.876	894.509	893.265	891.480
25	864.419	862.757	862.696	860.421	859.034	856.943	854.740	854.230	849.782	846.345
30	814.786	813.154	812.624	810.584	808.789	806.596	804.382	800.527	797.222	792.846
35	754.994	753.525	752.342	751.638	749.241	747.283	745.253	739.684	735.838	730.626
40	687.154	686.072	684.695	683.288	681.972	680.146	675.821	671.966	667.417	661.592
45	610.582	610.256	609.358	608.522	607.165	605.696	602.035	599.413	592.396	586.582
50	526.646	526.228	526.320	526.687	526.575	525.565	524.270	521.179	515.100	508.031
55	442.119	441.915	443.210	444.169	443.486	441.589	441.660	438.661	436.050	431.409
60	361.916	362.192	363.355	359.958	355.970	355.521	355.878	356.459	354.552	351.308
65	296.106	295.820	288.558	283.611	283.070	283.948	285.610	285.518	284.539	283.254
70	238.088	231.815	224.553	225.573	228.898	230.540	229.837	228.398	227.266	224.553
75	190.148	177.409	181.336	182.560	182.519	182.600	181.672	181.172	180.683	177.551
80	147.798	145.982	148.175	149.012	148.257	147.186	145.829	144.483	142.004	138.179
85	118.065	127.806	127.816	128.061	125.960	123.298	119.258	115.933	112.904	108.283
90	119.065	121.839	122.604	123.022	119.850	115.566	109.936	106.631	103.714	98.634
95	128.234	134.242	134.354	133.967	131.611	129.112	125.695	122.257	119.156	114.087
100	155.254	152.674	154.622	155.030	154.346	152.969	151.031	149.848	147.757	144.381
105	196.156	185.038	186.844	188.027	187.517	187.456	186.364	184.834	182.978	178.286
110	239.272	235.467	227.531	226.807	229.602	230.010	229.357	228.041	227.297	224.145
115	292.546	293.066	288.466	283.856	283.662	284.386	285.763	285.773	285.753	284.366
120	361.570	361.712	362.794	360.233	357.143	356.623	355.042	355.796	356.164	352.522
125	441.017	440.722	441.833	442.843	442.762	441.854	441.793	438.641	436.183	431.215
130	525.382	525.076	525.280	525.463	525.443	525.116	524.168	521.546	516.395	509.184
135	610.072	609.960	609.103	608.471	607.349	606.421	603.616	601.892	595.384	589.764
140	689.520	688.694	687.052	685.450	684.216	682.880	679.075	675.515	671.201	665.326
145	758.462	757.187	756.085	755.381	752.995	751.087	749.088	744.059	740.755	735.757
150	819.366	818.020	817.714	815.572	813.746	811.736	809.819	806.249	803.199	799.078
155	870.009	868.612	868.856	866.541	865.103	863.144	861.196	860.941	856.749	853.495
160	910.748	909.146	909.004	908.728	906.392	905.168	904.393	902.282	901.343	899.518
165	941.919	940.562	939.981	939.787	939.593	937.635	936.248	935.422	935.136	933.881
170	963.604	962.686	962.074	961.625	961.391	961.370	961.534	960.065	958.984	958.239
175	976.732	976.252	975.783	975.416	975.069	974.753	974.498	974.284	974.131	974.029
180	980.220	980.220	980.220	980.220	980.220	980.220	980.220	980.220	980.220	980.220

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	972.662	972.662	972.662	972.662	972.662	972.662	972.662	972.662	972.662
5	965.450	965.461	965.522	965.644	965.828	966.062	966.307	966.674	967.072
10	949.406	949.304	949.477	948.784	948.345	948.182	948.284	948.580	949.294
15	924.477	922.631	921.448	920.927	921.131	919.907	919.224	919.000	919.734
20	888.971	886.186	884.248	881.749	880.546	880.678	879.118	878.363	879.332
25	844.509	840.245	835.635	832.952	829.790	827.740	826.445	825.098	826.475
30	788.215	783.799	779.005	773.680	770.263	766.387	764.888	762.797	764.225
35	724.414	719.396	712.541	706.401	700.536	696.038	692.998	690.673	690.540
40	654.922	647.037	638.938	630.870	623.689	618.773	614.152	610.960	609.654
45	577.748	569.231	561.122	551.616	543.364	536.724	531.808	528.676	526.901
50	500.126	490.671	481.236	471.067	461.295	454.277	448.922	444.638	441.527
55	422.290	412.621	402.268	388.661	376.196	366.149	358.550	353.542	350.900
60	348.208	339.262	326.859	314.986	304.898	296.953	291.047	286.783	286.028

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DR_SO_359_22.IES

CANDELA TABULATION - (Cont.)

65	279.551	271.453	261.579	250.400	239.527	229.939	223.492	218.535	216.821
70	219.779	213.149	203.500	192.290	181.387	171.064	163.996	159.885	157.957
75	172.380	165.974	156.040	143.626	131.835	121.288	111.894	106.988	107.141
80	133.844	126.827	116.708	105.805	92.626	82.844	76.561	70.910	72.420
85	102.745	94.768	85.262	76.429	63.485	51.133	39.913	31.589	29.560
90	91.902	82.834	72.247	61.322	48.572	35.700	23.797	13.556	4.325
95	107.630	100.429	92.789	78.254	65.484	52.193	38.995	31.181	29.478
100	137.445	129.122	119.044	105.284	91.535	82.324	76.673	73.736	73.175
105	171.748	164.822	154.856	142.861	131.560	121.574	112.822	108.140	108.324
110	218.739	212.119	202.766	192.086	181.948	172.829	165.362	160.721	159.650
115	280.133	272.371	262.711	251.828	241.638	232.662	225.247	220.504	221.483
120	348.106	340.109	329.215	318.026	308.366	301.226	296.014	291.098	289.415
125	422.851	413.457	403.430	391.915	379.715	370.209	362.845	357.408	354.797
130	502.248	494.363	484.255	474.137	464.569	457.215	451.381	447.607	446.444
135	581.380	574.117	564.631	555.635	548.423	542.926	537.112	533.450	532.664
140	658.726	651.719	644.038	636.358	629.656	624.995	620.384	617.273	616.009
145	730.177	725.975	718.906	712.919	707.717	703.474	700.057	697.711	697.741
150	794.631	790.418	785.767	780.484	777.281	773.803	772.528	770.345	771.763
155	851.761	847.671	843.132	840.358	837.328	835.839	834.962	833.320	834.360
160	896.855	894.061	892.276	889.685	888.236	888.032	886.768	886.319	887.624
165	932.249	930.434	929.251	928.710	928.924	928.006	927.751	927.996	929.220
170	957.831	957.760	957.974	957.270	956.831	956.668	956.791	957.107	957.841
175	973.978	973.978	974.039	974.151	974.314	974.528	974.732	975.089	975.457
180	980.220	980.220	980.220	980.220	980.220	980.220	980.220	980.220	980.220

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	352.77	N.A.	6.90
0-30	741.81	N.A.	14.40
0-40	1195.47	N.A.	23.30
0-60	2011.5	N.A.	39.10
0-80	2450.89	N.A.	47.70
0-90	2559.29	N.A.	49.80
10-90	2467.53	N.A.	48.00
20-40	842.70	N.A.	16.40
20-50	1287.72	N.A.	25.10
40-70	1083.01	N.A.	21.10
60-80	439.40	N.A.	8.60
70-80	172.41	N.A.	3.40
80-90	108.39	N.A.	2.10
90-110	286.66	N.A.	5.60
90-120	554.54	N.A.	10.80
90-130	926.64	N.A.	18.00
90-150	1830.72	N.A.	35.60
90-180	2578.78	N.A.	50.20
110-180	2292.13	N.A.	44.60
0-180	5138.07	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	91.76
10-20	261.01
20-30	389.04
30-40	453.66
40-50	445.02
50-60	371.00
60-70	266.98
70-80	172.41
80-90	108.39
90-100	111.88
100-110	174.78
110-120	267.89
120-130	372.10
130-140	447.14
140-150	456.94
150-160	392.24
160-170	263.27
170-180	92.56

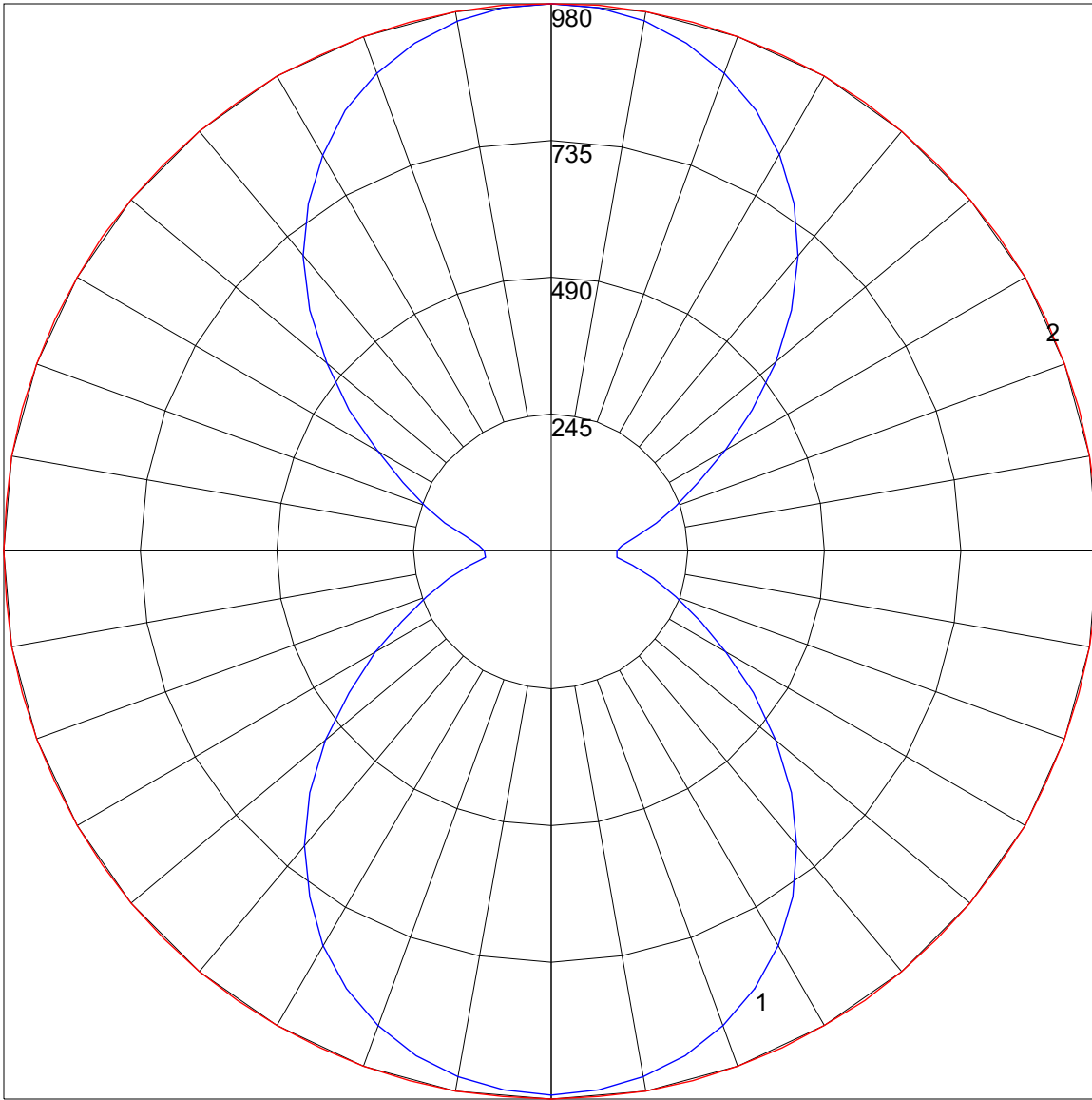
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DR_SO_359_22.IES

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 = 980.22 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.)