

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	95	98	100	102
Total Lumens, 4' rail length (1219mm)	2831	2920	2980	3040
Lumens per foot (305mm)	708	730	745	760
Lumens per foot UP (305mm)	355	366	374	381
Lumens per foot DOWN (305mm)	353	364	371	379
Input Power (W), 4' rail length (1219mm)	29.9	29.9	29.9	29.9
Watts per foot (305mm)	7.5	7.5	7.5	7.5
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_LO_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-LO-35-22
[LUMINAIRE] DoubleRace LED, 48", 3500K, 80 CRI, zipper board,
[MORE] round diffuse lens up/round diffuse lens down, low output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2972
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	29.9
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	5305	6526	19508
55	3553	4529	15661
65	2277	2899	12663
75	1444	1826	9466
85	913	1155	5717

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	562.618	562.618	562.618	562.618	562.618	562.618	562.618	562.618	562.618	562.618
5	560.170	559.863	559.562	559.355	559.131	558.936	558.771	558.641	558.541	558.476
10	552.623	552.063	551.697	551.408	551.249	551.207	551.272	550.446	549.839	549.408
15	540.428	539.638	539.307	539.183	539.024	537.820	536.965	536.475	536.339	535.667
20	522.840	521.802	521.637	521.412	520.085	519.330	518.781	517.412	516.692	515.660
25	500.007	499.046	499.010	497.694	496.892	495.683	494.408	494.113	491.541	489.552
30	471.298	470.354	470.047	468.867	467.829	466.560	465.280	463.050	461.138	458.607
35	436.712	435.862	435.178	434.771	433.384	432.252	431.078	427.856	425.632	422.617
40	397.471	396.846	396.049	395.235	394.474	393.418	390.916	388.686	386.055	382.686
45	353.180	352.991	352.472	351.988	351.203	350.354	348.236	346.719	342.660	339.297
50	304.629	304.387	304.440	304.652	304.587	304.003	303.254	301.466	297.950	293.861
55	255.735	255.617	256.367	256.921	256.526	255.429	255.470	253.735	252.225	249.540
60	209.344	209.503	210.176	208.211	205.904	205.644	205.851	206.187	205.084	203.208
65	171.277	171.112	166.911	164.049	163.737	164.244	165.206	165.153	164.586	163.843
70	137.718	134.089	129.888	130.478	132.402	133.352	132.945	132.113	131.458	129.888
75	109.988	102.619	104.890	105.598	105.575	105.622	105.085	104.796	104.513	102.701
80	85.491	84.441	85.709	86.193	85.756	85.137	84.352	83.573	82.140	79.927
85	68.292	73.927	73.933	74.074	72.859	71.319	68.983	67.059	65.307	62.634
90	68.871	70.475	70.918	71.160	69.325	66.847	63.590	61.679	59.991	57.053
95	74.175	77.650	77.715	77.491	76.128	74.682	72.706	70.717	68.924	65.991
100	89.804	88.311	89.438	89.674	89.279	88.482	87.361	86.677	85.467	83.514
105	113.463	107.032	108.076	108.761	108.466	108.430	107.799	106.914	105.840	103.126
110	138.402	136.201	131.611	131.192	132.809	133.045	132.667	131.906	131.476	129.652
115	169.218	169.519	166.858	164.191	164.079	164.498	165.294	165.300	165.288	164.486
120	209.143	209.226	209.851	208.370	206.583	206.282	205.367	205.804	206.016	203.910
125	255.098	254.927	255.570	256.154	256.107	255.582	255.547	253.724	252.302	249.428
130	303.897	303.720	303.838	303.944	303.933	303.744	303.195	301.679	298.699	294.528
135	352.885	352.820	352.324	351.959	351.310	350.773	349.150	348.153	344.389	341.138
140	398.840	398.362	397.412	396.486	395.772	394.999	392.798	390.739	388.244	384.845
145	438.718	437.981	437.343	436.936	435.556	434.452	433.296	430.387	428.476	425.585
150	473.947	473.168	472.991	471.752	470.696	469.534	468.425	466.360	464.595	462.212
155	503.240	502.432	502.574	501.234	500.403	499.270	498.143	497.995	495.570	493.688
160	526.805	525.879	525.796	525.637	524.286	523.578	523.129	521.908	521.365	520.309
165	544.835	544.051	543.714	543.602	543.490	542.357	541.555	541.077	540.912	540.186
170	557.379	556.848	556.494	556.234	556.099	556.087	556.181	555.332	554.706	554.275
175	564.972	564.695	564.423	564.211	564.010	563.828	563.680	563.556	563.468	563.409
180	566.990	566.990	566.990	566.990	566.990	566.990	566.990	566.990	566.990	566.990

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	562.618	562.618	562.618	562.618	562.618	562.618	562.618	562.618	562.618
5	558.447	558.453	558.488	558.559	558.665	558.801	558.942	559.155	559.385
10	549.166	549.107	549.207	548.806	548.552	548.458	548.517	548.688	549.101
15	534.746	533.679	532.994	532.693	532.811	532.103	531.708	531.578	532.003
20	514.209	512.598	511.477	510.031	509.335	509.412	508.509	508.073	508.633
25	488.490	486.024	483.357	481.806	479.977	478.791	478.042	477.263	478.059
30	455.928	453.374	450.601	447.521	445.544	443.302	442.435	441.226	442.052
35	419.024	416.121	412.156	408.604	405.212	402.610	400.852	399.507	399.430
40	378.827	374.266	369.582	364.915	360.761	357.918	355.245	353.398	352.643
45	334.188	329.261	324.571	319.072	314.299	310.458	307.614	305.803	304.776
50	289.289	283.819	278.362	272.480	266.827	262.768	259.671	257.193	255.393
55	244.266	238.673	232.684	224.814	217.604	211.792	207.397	204.500	202.972
60	201.414	196.240	189.065	182.198	176.363	171.767	168.351	165.884	165.448

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CANDELA TABULATION - (Cont.)

65	161.701	157.017	151.305	144.839	138.550	133.004	129.275	126.407	125.416
70	127.127	123.292	117.711	111.227	104.920	98.949	94.860	92.482	91.367
75	99.710	96.005	90.258	83.078	76.257	70.157	64.723	61.885	61.974
80	77.420	73.361	67.508	61.201	53.578	47.920	44.285	41.017	41.890
85	59.431	54.817	49.318	44.209	36.722	29.577	23.087	18.272	17.098
90	53.159	47.914	41.790	35.471	28.096	20.650	13.765	7.841	2.502
95	62.257	58.091	53.672	45.265	37.878	30.190	22.556	18.036	17.051
100	79.502	74.688	68.859	60.900	52.947	47.619	44.350	42.651	42.327
105	99.344	95.338	89.574	82.635	76.098	70.322	65.260	62.552	62.658
110	126.525	122.696	117.286	111.109	105.244	99.970	95.651	92.966	92.347
115	162.038	157.548	151.960	145.665	139.771	134.579	130.290	127.546	128.113
120	201.355	196.730	190.428	183.956	178.369	174.239	171.224	168.380	167.407
125	244.590	239.156	233.357	226.696	219.639	214.140	209.881	206.736	205.226
130	290.516	285.955	280.108	274.256	268.721	264.467	261.093	258.910	258.237
135	336.288	332.087	326.600	321.397	317.225	314.045	310.682	308.564	308.110
140	381.028	376.975	372.532	368.089	364.213	361.517	358.850	357.050	356.319
145	422.357	419.927	415.838	412.375	409.366	406.911	404.935	403.578	403.595
150	459.639	457.203	454.512	451.456	449.604	447.592	446.854	445.592	446.412
155	492.685	490.319	487.694	486.089	484.337	483.475	482.968	482.018	482.620
160	518.769	517.153	516.120	514.622	513.784	513.666	512.934	512.675	513.430
165	539.242	538.192	537.508	537.195	537.319	536.788	536.640	536.782	537.490
170	554.039	553.998	554.122	553.715	553.461	553.367	553.438	553.621	554.045
175	563.379	563.379	563.415	563.479	563.574	563.698	563.816	564.022	564.235
180	566.990	566.990	566.990	566.990	566.990	566.990	566.990	566.990	566.990

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	204.05	N.A.	6.90
0-30	429.08	N.A.	14.40
0-40	691.50	N.A.	23.30
0-60	1163.51	N.A.	39.10
0-80	1417.67	N.A.	47.70
0-90	1480.37	N.A.	49.80
10-90	1427.29	N.A.	48.00
20-40	487.44	N.A.	16.40
20-50	744.86	N.A.	25.10
40-70	626.45	N.A.	21.10
60-80	254.16	N.A.	8.60
70-80	99.73	N.A.	3.40
80-90	62.70	N.A.	2.10
90-110	165.81	N.A.	5.60
90-120	320.77	N.A.	10.80
90-130	536.00	N.A.	18.00
90-150	1058.95	N.A.	35.60
90-180	1491.65	N.A.	50.20
110-180	1325.84	N.A.	44.60
0-180	2972.02	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	53.08
10-20	150.98
20-30	225.03
30-40	262.41
40-50	257.42
50-60	214.60
60-70	154.43
70-80	99.73
80-90	62.70
90-100	64.72
100-110	101.10
110-120	154.95
120-130	215.23
130-140	258.64
140-150	264.31
150-160	226.88
160-170	152.28
170-180	53.54

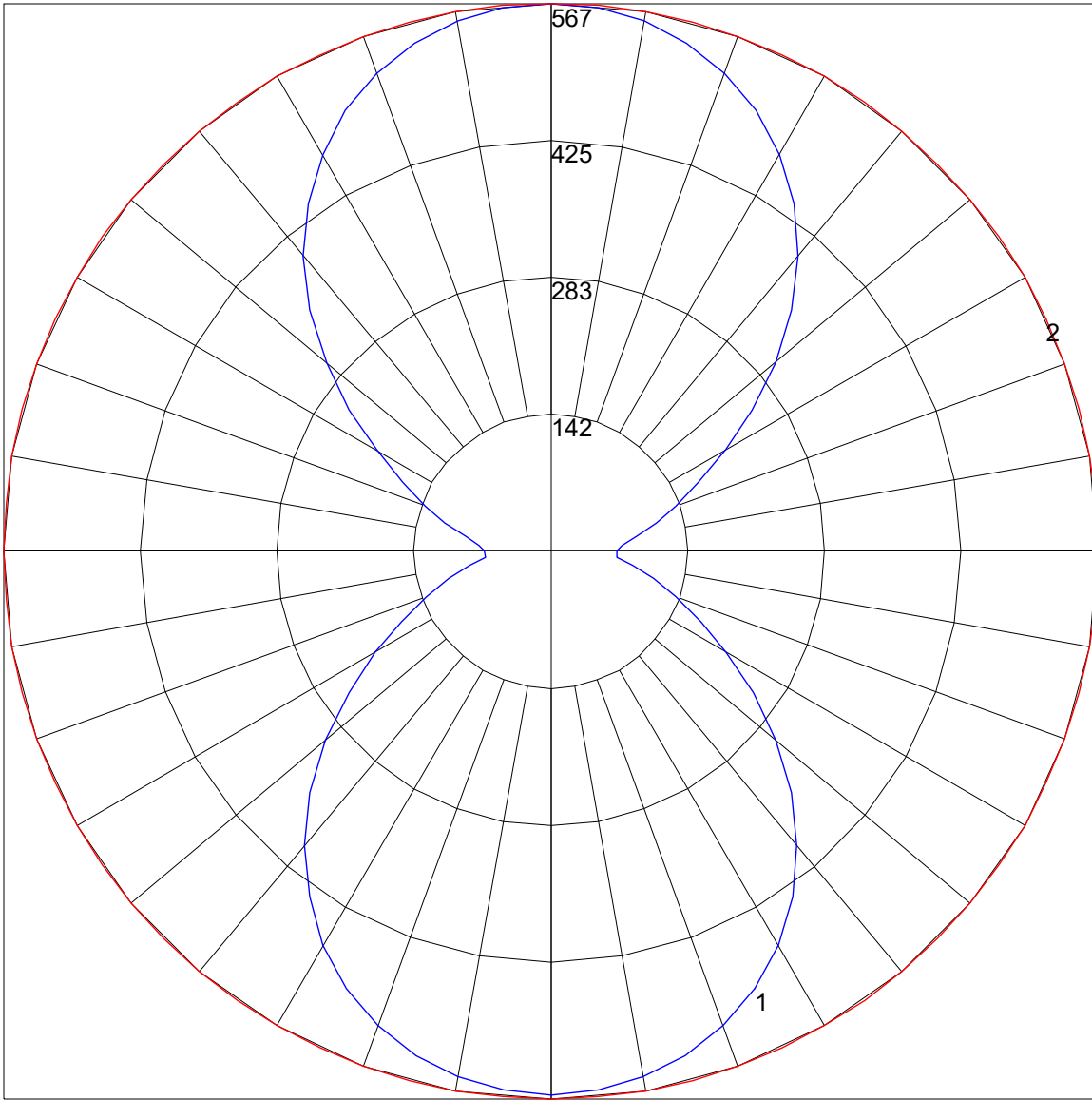
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 566.99 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.)