

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	82	85	86	88
Total Lumens, 4' rail length (1219mm)	2441	2518	2569	2620
Lumens per foot (305mm)	610	629	642	655
Lumens per foot UP (305mm)	306	316	322	329
Lumens per foot DOWN (305mm)	304	314	320	326
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	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_LO_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-LO-359-22
[LUMINAIRE] DoubleRace LED, 48", 3500K, 90 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	2569
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
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	4586	5641	16863
55	3071	3915	13537
65	1969	2506	10946
75	1249	1579	8182
85	789	998	4942

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	486.331	486.331	486.331	486.331	486.331	486.331	486.331	486.331	486.331	486.331
5	484.214	483.949	483.689	483.511	483.317	483.148	483.006	482.893	482.807	482.751
10	477.691	477.207	476.891	476.641	476.503	476.467	476.524	475.810	475.284	474.912
15	467.150	466.466	466.181	466.074	465.936	464.896	464.156	463.733	463.615	463.034
20	451.947	451.049	450.906	450.712	449.565	448.912	448.438	447.255	446.632	445.740
25	432.210	431.378	431.348	430.210	429.517	428.471	427.370	427.115	424.891	423.172
30	407.393	406.577	406.312	405.292	404.394	403.298	402.191	400.263	398.611	396.423
35	377.497	376.762	376.171	375.819	374.620	373.641	372.626	369.842	367.919	365.313
40	343.577	343.036	342.348	341.644	340.986	340.073	337.911	335.983	333.708	330.796
45	305.291	305.128	304.679	304.261	303.583	302.848	301.017	299.707	296.198	293.291
50	263.323	263.114	263.160	263.344	263.287	262.783	262.135	260.590	257.550	254.016
55	221.059	220.957	221.605	222.085	221.743	220.794	220.830	219.331	218.025	215.704
60	180.958	181.096	181.677	179.979	177.985	177.760	177.939	178.230	177.276	175.654
65	148.053	147.910	144.279	141.805	141.535	141.974	142.805	142.759	142.270	141.627
70	119.044	115.908	112.276	112.786	114.449	115.270	114.918	114.199	113.633	112.276
75	95.074	88.704	90.668	91.280	91.259	91.300	90.836	90.586	90.341	88.776
80	73.899	72.991	74.088	74.506	74.128	73.593	72.915	72.241	71.002	69.090
85	59.032	63.903	63.908	64.030	62.980	61.649	59.629	57.967	56.452	54.142
90	59.532	60.919	61.302	61.511	59.925	57.783	54.968	53.315	51.857	49.317
95	64.117	67.121	67.177	66.983	65.805	64.556	62.847	61.129	59.578	57.043
100	77.627	76.337	77.311	77.515	77.173	76.485	75.516	74.924	73.879	72.190
105	98.078	92.519	93.422	94.013	93.758	93.728	93.182	92.417	91.489	89.143
110	119.636	117.733	113.766	113.404	114.801	115.005	114.679	114.021	113.648	112.072
115	146.273	146.533	144.233	141.928	141.831	142.193	142.882	142.887	142.876	142.183
120	180.785	180.856	181.397	180.117	178.571	178.311	177.521	177.898	178.082	176.261
125	220.509	220.361	220.917	221.422	221.381	220.927	220.896	219.320	218.091	215.608
130	262.691	262.538	262.640	262.732	262.721	262.558	262.084	260.773	258.198	254.592
135	305.036	304.980	304.552	304.235	303.674	303.210	301.808	300.946	297.692	294.882
140	344.760	344.347	343.526	342.725	342.108	341.440	339.538	337.758	335.600	332.663
145	379.231	378.593	378.043	377.691	376.497	375.544	374.544	372.030	370.377	367.878
150	409.683	409.010	408.857	407.786	406.873	405.868	404.909	403.124	401.599	399.539
155	435.004	434.306	434.428	433.270	432.551	431.572	430.598	430.471	428.374	426.748
160	455.374	454.573	454.502	454.364	453.196	452.584	452.197	451.141	450.672	449.759
165	470.959	470.281	469.990	469.894	469.797	468.817	468.124	467.711	467.568	466.941
170	481.802	481.343	481.037	480.813	480.695	480.685	480.767	480.032	479.492	479.119
175	488.366	488.126	487.891	487.708	487.534	487.376	487.249	487.142	487.065	487.014
180	490.110	490.110	490.110	490.110	490.110	490.110	490.110	490.110	490.110	490.110

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	486.331	486.331	486.331	486.331	486.331	486.331	486.331	486.331	486.331
5	482.725	482.730	482.761	482.822	482.914	483.031	483.154	483.337	483.536
10	474.703	474.652	474.739	474.392	474.172	474.091	474.142	474.290	474.647
15	462.238	461.315	460.724	460.464	460.566	459.954	459.612	459.500	459.867
20	444.485	443.093	442.124	440.875	440.273	440.339	439.559	439.181	439.666
25	422.254	420.123	417.817	416.476	414.895	413.870	413.222	412.549	413.238
30	394.108	391.899	389.502	386.840	385.132	383.194	382.444	381.398	382.112
35	362.207	359.698	356.271	353.200	350.268	348.019	346.499	345.336	345.270
40	327.461	323.518	319.469	315.435	311.845	309.386	307.076	305.480	304.827
45	288.874	284.616	280.561	275.808	271.682	268.362	265.904	264.338	263.451
50	250.063	245.335	240.618	235.533	230.647	227.139	224.461	222.319	220.764
55	211.145	206.310	201.134	194.330	188.098	183.075	179.275	176.771	175.450
60	174.104	169.631	163.429	157.493	152.449	148.476	145.523	143.392	143.014

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CANDELA TABULATION - (Cont.)

65	139.776	135.726	130.789	125.200	119.763	114.969	111.746	109.267	108.411
70	109.890	106.575	101.750	96.145	90.693	85.532	81.998	79.942	78.979
75	86.190	82.987	78.020	71.813	65.917	60.644	55.947	53.494	53.570
80	66.922	63.413	58.354	52.902	46.313	41.422	38.281	35.455	36.210
85	51.372	47.384	42.631	38.214	31.742	25.566	19.956	15.795	14.780
90	45.951	41.417	36.123	30.661	24.286	17.850	11.898	6.778	2.162
95	53.815	50.215	46.395	39.127	32.742	26.097	19.497	15.591	14.739
100	68.722	64.561	59.522	52.642	45.767	41.162	38.337	36.868	36.587
105	85.874	82.411	77.428	71.431	65.780	60.787	56.411	54.070	54.162
110	109.369	106.060	101.383	96.043	90.974	86.414	82.681	80.361	79.825
115	140.066	136.185	131.356	125.914	120.819	116.331	112.623	110.252	110.741
120	174.053	170.054	164.608	159.013	154.183	150.613	148.007	145.549	144.707
125	211.426	206.728	201.715	195.957	189.858	185.104	181.422	178.704	177.398
130	251.124	247.182	242.128	237.068	232.285	228.607	225.690	223.803	223.222
135	290.690	287.059	282.316	277.817	274.212	271.463	268.556	266.725	266.332
140	329.363	325.859	322.019	318.179	314.828	312.497	310.192	308.637	308.004
145	365.089	362.987	359.453	356.459	353.858	351.737	350.028	348.855	348.871
150	397.315	395.209	392.884	390.242	388.640	386.901	386.264	385.172	385.881
155	425.881	423.835	421.566	420.179	418.664	417.919	417.481	416.660	417.180
160	448.428	447.030	446.138	444.842	444.118	444.016	443.384	443.159	443.812
165	466.125	465.217	464.625	464.355	464.462	464.003	463.876	463.998	464.610
170	478.915	478.880	478.987	478.635	478.416	478.334	478.395	478.553	478.921
175	486.989	486.989	487.019	487.075	487.157	487.264	487.366	487.545	487.728
180	490.110	490.110	490.110	490.110	490.110	490.110	490.110	490.110	490.110

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	176.39	N.A.	6.90
0-30	370.90	N.A.	14.40
0-40	597.74	N.A.	23.30
0-60	1005.75	N.A.	39.10
0-80	1225.45	N.A.	47.70
0-90	1279.64	N.A.	49.80
10-90	1233.76	N.A.	48.00
20-40	421.35	N.A.	16.40
20-50	643.86	N.A.	25.10
40-70	541.50	N.A.	21.10
60-80	219.70	N.A.	8.60
70-80	86.21	N.A.	3.40
80-90	54.20	N.A.	2.10
90-110	143.33	N.A.	5.60
90-120	277.27	N.A.	10.80
90-130	463.32	N.A.	18.00
90-150	915.36	N.A.	35.60
90-180	1289.39	N.A.	50.20
110-180	1146.06	N.A.	44.60
0-180	2569.03	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	45.88
10-20	130.51
20-30	194.52
30-40	226.83
40-50	222.51
50-60	185.50
60-70	133.49
70-80	86.21
80-90	54.20
90-100	55.94
100-110	87.39
110-120	133.94
120-130	186.05
130-140	223.57
140-150	228.47
150-160	196.12
160-170	131.63
170-180	46.28

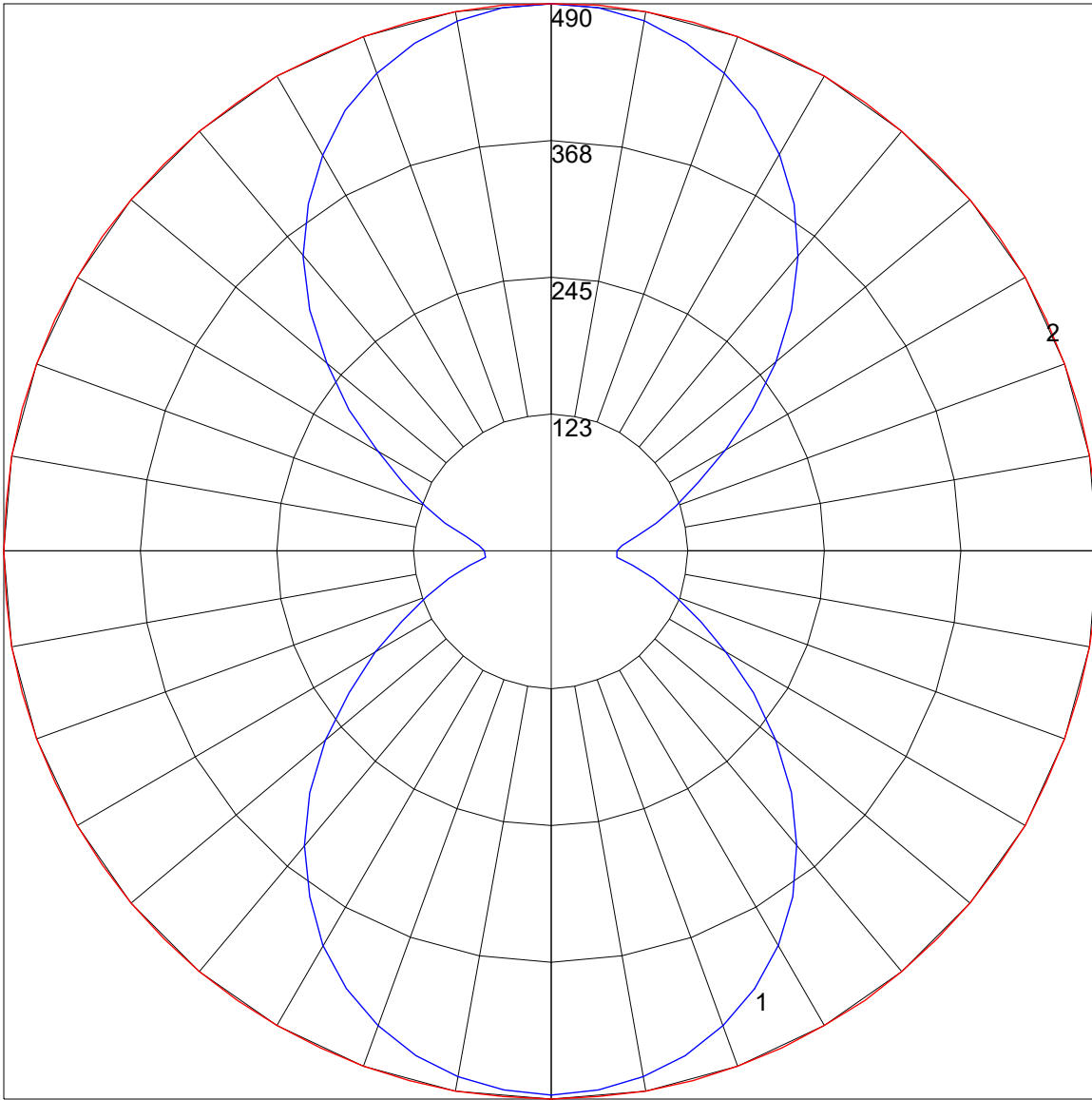
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 490.11 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.)