

**IES Report**

**DoubleRace™ | 107 | 120° Batwing, Flat, up | 120° FlyWing™, Flat, down | 80 CRI | LO**

107-DR-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-G1G2-X-XX-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	87	90	92	93
Total Lumens, 4' rail length (1219mm)	2589	2671	2725	2780
Lumens per foot (305mm)	647	668	681	695
Lumens per foot UP (305mm)	322	332	339	346
Lumens per foot DOWN (305mm)	325	335	342	349
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\_G1G2.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L011800111 (SOURCE REPORT FOR REFERENCE)  
 [TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
 [ISSUEDATE] 1/9/2018  
 [MANUFAC] Vode Lighting  
 [LUMCAT] 107-DR-48-Z-LO-35-G1G2  
 [LUMINAIRE] DoubleRace LED, 48", 3500K, 80 CRI, zipper board,  
 [MORE] 120° batwing lens up/120° flywing 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	2725
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
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)	3.77 ft
Luminous Height	0.17 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7358	8200	15643
55	5194	6009	14420
65	2664	3451	13343
75	830	1338	10306
85	43	118	3572

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>
<b>0</b>	466.395	466.395	466.395	466.395	466.395	466.395	466.395	466.395	466.395	466.395
<b>5</b>	470.490	470.131	469.771	469.307	468.860	468.396	467.915	467.416	466.906	466.390
<b>10</b>	480.698	479.985	479.039	477.990	476.801	475.478	474.017	471.273	468.524	465.757
<b>15</b>	491.295	490.326	489.004	487.490	485.425	481.777	477.903	473.825	469.562	464.220
<b>20</b>	497.315	496.178	494.804	492.814	489.033	485.083	480.588	474.475	468.246	460.961
<b>25</b>	497.170	495.993	494.810	491.527	487.867	483.076	477.369	471.656	462.318	452.475
<b>30</b>	490.187	488.905	487.362	484.300	480.333	475.252	469.382	461.390	451.814	440.562
<b>35</b>	475.786	474.672	472.683	470.061	465.740	460.798	454.888	445.376	435.621	423.168
<b>40</b>	452.719	451.704	449.651	446.699	443.166	438.932	431.572	423.185	413.180	399.608
<b>45</b>	419.531	418.859	417.182	414.480	411.342	407.711	400.357	393.942	382.000	370.202
<b>50</b>	374.407	373.607	372.174	370.249	368.503	365.243	359.838	353.110	342.902	329.620
<b>55</b>	316.228	315.282	314.453	314.070	313.519	309.297	307.881	300.399	293.468	283.214
<b>60</b>	243.745	243.229	242.858	240.346	237.893	236.536	235.990	235.318	229.378	223.619
<b>65</b>	167.556	167.985	164.250	161.385	162.209	163.635	166.675	165.573	165.776	164.575
<b>70</b>	100.607	99.418	96.808	97.330	100.665	103.460	105.316	106.621	107.422	107.781
<b>75</b>	52.304	48.784	50.008	51.753	52.966	54.984	56.875	58.615	61.318	62.611
<b>80</b>	13.920	15.329	15.730	16.321	17.267	18.427	19.616	22.052	23.855	27.550
<b>85</b>	2.651	3.022	3.051	3.068	3.103	3.219	3.144	3.306	4.153	5.266
<b>90</b>	1.056	1.085	1.061	1.038	1.038	1.061	1.131	1.061	1.061	1.108
<b>95</b>	13.485	17.812	15.730	16.669	18.067	19.842	20.799	24.377	23.635	22.765
<b>100</b>	69.884	65.175	66.485	67.268	66.874	66.601	66.723	65.749	64.044	61.451
<b>105</b>	123.824	116.249	117.293	118.076	116.911	116.406	115.530	113.500	111.992	107.091
<b>110</b>	180.171	177.387	171.512	170.891	172.765	173.031	172.927	168.589	166.269	159.111
<b>115</b>	243.646	243.559	238.328	234.471	232.928	232.070	230.620	226.815	222.018	214.617
<b>120</b>	311.216	310.520	308.978	305.057	301.704	297.412	293.364	289.118	278.307	263.094
<b>125</b>	370.359	369.379	367.819	366.345	364.072	357.866	353.092	340.733	327.317	308.444
<b>130</b>	419.386	418.366	416.046	413.064	409.561	403.442	394.325	381.431	363.405	340.025
<b>135</b>	456.524	455.596	452.475	448.021	442.244	435.394	422.234	408.564	386.993	364.292
<b>140</b>	478.529	477.143	473.518	468.176	461.303	452.533	438.741	422.049	402.282	376.298
<b>145</b>	487.438	485.796	482.067	476.435	467.996	457.748	445.104	425.749	405.258	381.037
<b>150</b>	483.204	481.377	477.694	470.693	461.605	450.254	436.978	419.566	399.266	376.936
<b>155</b>	462.202	460.201	456.692	449.570	440.713	429.519	416.376	402.288	384.923	366.879
<b>160</b>	424.978	423.551	420.088	415.234	407.682	399.011	389.023	377.070	364.460	352.704
<b>165</b>	381.002	380.138	377.916	375.086	371.183	365.475	359.124	352.199	344.758	336.336
<b>170</b>	343.006	342.542	341.487	340.193	338.563	336.609	334.335	331.122	327.735	324.174
<b>175</b>	319.023	318.849	318.681	318.258	317.904	317.498	317.045	316.558	316.030	315.468
<b>180</b>	311.460	311.460	311.460	311.460	311.460	311.460	311.460	311.460	311.460	311.460

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>
<b>0</b>	466.395	466.395	466.395	466.395	466.395	466.395	466.395	466.395	466.395
<b>5</b>	465.868	465.346	464.829	464.319	463.826	463.350	462.852	462.451	462.057
<b>10</b>	462.985	460.236	457.562	455.915	454.418	453.073	451.884	450.817	450.022
<b>15</b>	458.739	453.548	448.473	443.572	438.787	436.189	433.979	432.059	430.754
<b>20</b>	452.696	443.915	435.441	427.692	420.285	413.180	409.405	406.104	403.883
<b>25</b>	442.621	431.195	419.125	407.421	397.242	388.107	381.182	377.075	374.454
<b>30</b>	427.889	414.108	399.556	384.644	370.713	359.577	349.589	345.036	342.380
<b>35</b>	408.703	393.779	375.962	358.753	342.339	328.680	317.666	311.634	308.183
<b>40</b>	384.447	366.833	348.110	328.843	311.460	296.426	285.296	278.214	274.520
<b>45</b>	352.553	335.182	315.845	296.374	279.090	264.468	253.669	246.535	243.165
<b>50</b>	314.749	297.592	278.905	261.278	245.323	231.826	222.036	216.073	213.887
<b>55</b>	268.372	252.886	236.460	221.902	209.363	199.851	192.850	187.833	185.182
<b>60</b>	215.516	201.544	190.223	181.505	173.959	167.568	162.562	159.042	158.160

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	160.329	154.239	148.248	142.489	137.901	134.345	131.347	129.578	130.082
<b>70</b>	107.080	106.842	105.525	103.292	101.807	100.885	99.632	98.832	98.826
<b>75</b>	64.531	66.236	67.094	66.781	66.619	66.509	66.323	65.981	65.546
<b>80</b>	30.810	32.022	33.553	34.081	34.748	39.034	40.008	39.504	39.974
<b>85</b>	5.910	6.919	7.685	8.288	9.553	10.626	10.011	9.848	9.924
<b>90</b>	1.085	1.061	1.038	1.038	0.963	0.940	1.009	1.009	0.916
<b>95</b>	22.144	19.923	18.032	15.538	13.897	13.247	12.690	13.021	13.102
<b>100</b>	57.814	52.797	48.592	42.282	39.892	41.737	40.936	40.449	40.983
<b>105</b>	100.166	91.188	81.473	73.382	67.779	64.519	63.597	62.170	61.550
<b>110</b>	147.877	134.740	120.118	107.428	99.197	93.948	91.269	89.813	89.581
<b>115</b>	199.282	178.959	158.462	141.294	129.456	122.264	118.245	116.505	115.878
<b>120</b>	242.979	216.572	191.899	172.649	158.485	149.698	144.930	142.199	142.170
<b>125</b>	281.387	252.834	223.938	199.856	183.918	174.081	168.264	165.219	164.761
<b>130</b>	312.753	281.248	251.621	225.875	206.561	196.127	189.759	186.447	185.902
<b>135</b>	333.280	302.743	272.989	248.524	229.245	216.578	209.589	205.645	204.108
<b>140</b>	348.302	318.124	290.528	266.394	248.866	235.480	228.004	223.683	221.833
<b>145</b>	354.078	328.083	303.450	282.129	265.588	253.460	245.189	241.303	239.314
<b>150</b>	354.293	332.079	311.129	294.188	278.702	269.282	260.739	257.822	255.832
<b>155</b>	348.574	331.429	315.955	301.026	290.911	282.153	275.842	272.983	270.860
<b>160</b>	340.477	327.828	315.769	307.562	299.692	292.036	289.043	286.375	284.200
<b>165</b>	328.669	322.503	316.344	310.219	304.036	301.606	299.448	297.412	295.661
<b>170</b>	320.467	316.639	312.811	311.228	309.714	308.247	306.837	305.480	304.233
<b>175</b>	314.882	314.273	313.641	312.997	312.347	311.686	311.008	310.364	309.726
<b>180</b>	311.460	311.460	311.460	311.460	311.460	311.460	311.460	311.460	311.460

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	175.22	N.A.	6.40
0-30	380.01	N.A.	13.90
0-40	634.60	N.A.	23.30
0-60	1138.4	N.A.	41.80
0-80	1357.8	N.A.	49.80
0-90	1368.66	N.A.	50.20
10-90	1324.17	N.A.	48.60
20-40	459.38	N.A.	16.90
20-50	728.13	N.A.	26.70
40-70	657.18	N.A.	24.10
60-80	219.40	N.A.	8.10
70-80	66.02	N.A.	2.40
80-90	10.86	N.A.	0.40
90-110	128.19	N.A.	4.70
90-120	316.37	N.A.	11.60
90-130	566.67	N.A.	20.80
90-150	1061.06	N.A.	38.90
90-180	1356.59	N.A.	49.80
110-180	1228.4	N.A.	45.10
0-180	2725.26	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	44.49
10-20	130.73
20-30	204.79
30-40	254.59
40-50	268.75
50-60	235.05
60-70	153.39
70-80	66.02
80-90	10.86
90-100	25.28
100-110	102.91
110-120	188.17
120-130	250.31
130-140	263.20
140-150	231.19
150-160	168.95
160-170	96.23
170-180	30.35

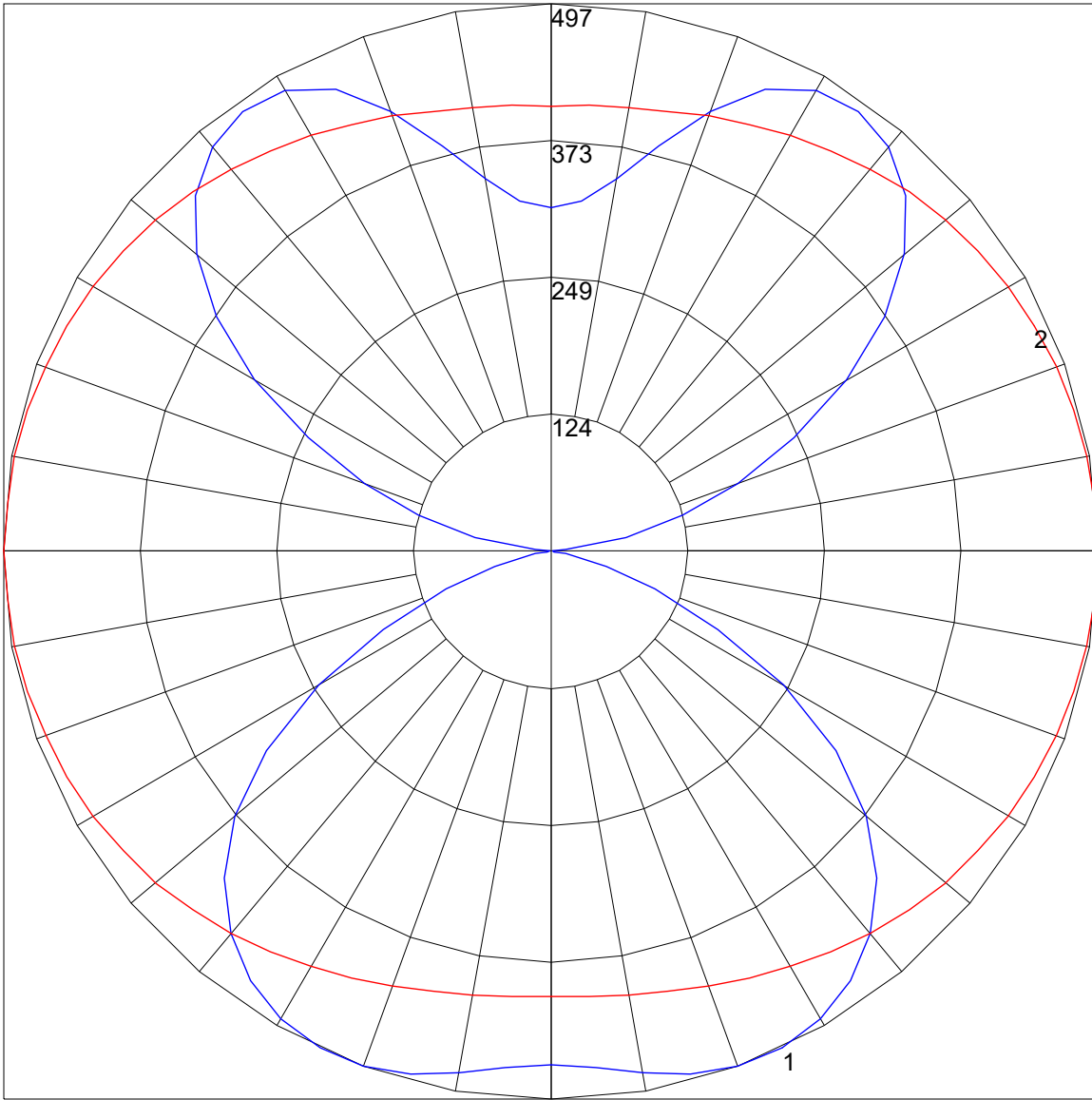
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	98	94	90	87	90	87	84	81	74	71	69	61	60	58	50	49	48	43
2	89	82	76	71	82	76	71	66	65	61	57	54	51	49	44	42	41	36
3	82	72	65	59	75	67	60	55	57	52	48	48	44	41	39	37	35	30
4	75	64	56	50	69	59	52	47	51	45	41	42	38	35	35	32	30	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	23
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	32	53	43	35	30	37	31	27	31	27	23	26	23	20	17
8	54	41	34	28	50	39	32	27	33	28	24	28	24	21	24	20	18	15
9	50	38	30	25	46	35	29	24	31	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	12

POLAR GRAPH



Maximum Candela = 497.315 Located At Horizontal Angle = 0, Vertical Angle = 20  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)