



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE\_107\_DB\_LO\_359\_G1G2.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911505 (SOURCE REPORTS FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 3/18/20

[MANUFAC] Vode Lighting

[LUMCAT] 107-DB-48-Z-LO-359-G1G2-AL

[LUMINAIRE] DoubleBox LED, 48", 3500K, 90 CRI, zipper board, wide batwing lens up /

[MORE] flywing lens down, low output, clear anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2729
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	27.64
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)	0.07 ft
Luminous Width (90-270)	3.84 ft
Luminous Height	0.21 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5870	6578	13016
55	4204	4872	12045
65	2234	2909	11261
75	777	1207	9195
85	50	125	3634

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**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>	457.320	457.320	457.320	457.320	457.320	457.320	457.320	457.320	457.320	457.320
<b>5</b>	460.445	460.110	460.070	459.670	459.565	459.105	458.770	458.265	457.615	457.115
<b>10</b>	469.165	468.890	468.200	467.550	466.355	464.700	463.235	461.305	459.190	456.860
<b>15</b>	479.640	479.160	478.340	476.710	474.485	471.700	468.345	464.595	460.025	455.625
<b>20</b>	485.930	485.510	484.210	482.240	479.390	475.620	470.905	465.540	459.085	452.230
<b>25</b>	486.475	486.180	484.690	482.345	478.720	474.610	468.975	462.120	454.305	445.190
<b>30</b>	480.145	480.080	478.720	476.165	472.455	467.485	461.600	454.035	444.605	434.000
<b>35</b>	467.360	466.940	465.370	462.645	459.125	454.220	447.975	439.785	430.120	418.050
<b>40</b>	445.900	445.460	444.035	441.605	438.000	433.310	427.270	419.120	408.540	396.360
<b>45</b>	415.015	414.760	413.440	411.595	408.475	404.325	398.225	390.410	380.120	367.420
<b>50</b>	373.060	372.830	372.055	370.585	368.365	365.075	359.985	352.835	342.925	330.855
<b>55</b>	318.530	318.425	318.115	317.860	316.940	314.905	311.070	305.415	296.530	285.315
<b>60</b>	249.920	250.090	250.845	251.660	252.250	252.145	250.465	246.925	240.640	231.690
<b>65</b>	175.445	175.715	176.765	178.275	180.035	181.480	182.065	181.185	178.190	173.075
<b>70</b>	109.390	109.705	110.775	112.410	114.420	116.705	118.445	119.410	119.095	117.335
<b>75</b>	61.320	61.485	62.155	63.310	64.795	66.515	68.150	69.530	70.370	70.750
<b>80</b>	25.900	26.050	26.490	27.245	28.310	29.610	31.015	32.400	33.760	34.955
<b>85</b>	3.815	3.815	3.875	3.940	4.130	4.340	4.695	5.240	6.035	7.020
<b>90</b>	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440
<b>95</b>	11.360	13.975	13.185	13.485	13.940	14.705	15.085	18.115	19.845	21.180
<b>100</b>	43.880	46.055	47.140	49.385	52.275	55.355	58.905	61.905	65.915	66.265
<b>105</b>	105.325	98.105	104.990	107.740	110.880	116.010	119.900	123.180	126.285	125.490
<b>110</b>	196.360	189.900	190.550	194.700	201.410	201.770	208.755	203.610	198.460	186.135
<b>115</b>	314.090	312.800	301.720	296.015	293.335	291.705	283.705	272.480	258.235	240.600
<b>120</b>	399.715	397.215	391.710	381.355	371.845	358.540	344.415	328.385	303.710	277.875
<b>125</b>	455.415	452.505	445.750	437.215	426.545	406.415	388.250	361.930	335.550	305.845
<b>130</b>	479.225	476.655	469.290	458.145	444.570	426.500	403.545	378.640	350.155	320.870
<b>135</b>	478.970	476.805	469.920	459.085	444.100	426.735	404.785	382.030	355.725	329.455
<b>140</b>	463.465	461.255	455.010	445.300	432.395	416.355	397.405	376.775	354.715	332.045
<b>145</b>	438.985	437.015	432.025	424.310	413.375	400.065	384.545	366.920	348.635	329.980
<b>150</b>	410.485	408.705	405.055	398.765	390.375	379.775	367.315	353.800	340.000	324.995
<b>155</b>	380.895	379.600	377.185	372.375	366.305	358.540	349.405	339.595	329.405	319.095
<b>160</b>	353.065	352.380	350.400	347.685	343.365	338.440	332.780	325.975	318.835	312.440
<b>165</b>	329.220	328.715	327.465	325.990	323.990	321.005	317.690	314.065	310.160	305.640
<b>170</b>	311.405	311.130	310.525	309.850	309.015	308.035	306.910	305.130	303.285	301.360
<b>175</b>	300.720	300.590	300.485	300.170	299.935	299.680	299.405	299.110	298.800	298.475
<b>180</b>	297.000	297.000	297.000	297.000	297.000	297.000	297.000	297.000	297.000	297.000

**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>	457.320	457.320	457.320	457.320	457.320	457.320	457.320	457.320	457.320
<b>5</b>	456.735	456.255	455.690	455.435	455.205	454.745	454.475	454.350	454.160
<b>10</b>	454.555	452.380	450.305	448.440	446.720	445.190	444.225	443.555	443.135
<b>15</b>	451.035	445.800	441.230	436.995	433.015	429.600	427.355	425.910	425.155
<b>20</b>	444.875	436.535	429.140	421.280	414.595	408.875	404.390	401.600	400.595
<b>25</b>	435.070	424.590	413.335	402.650	392.695	383.915	377.250	373.205	371.385
<b>30</b>	421.930	408.745	394.330	380.520	367.255	355.940	347.055	341.665	339.530
<b>35</b>	404.030	388.545	372.265	355.015	339.340	326.015	315.450	309.020	306.670
<b>40</b>	380.895	363.715	345.605	326.955	309.500	294.160	283.115	276.200	273.770
<b>45</b>	351.580	333.870	315.200	295.650	278.045	263.040	251.745	245.020	242.630
<b>50</b>	315.200	297.745	279.765	261.470	245.645	231.710	221.735	215.510	213.460
<b>55</b>	271.045	255.435	239.945	224.755	211.845	200.800	192.965	187.870	186.175
<b>60</b>	220.520	208.220	196.650	186.005	177.120	169.680	164.465	161.215	159.935

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	166.245	159.055	152.495	146.630	141.895	138.015	135.270	133.450	132.905
<b>70</b>	114.820	112.075	109.705	107.775	106.205	105.240	104.340	103.690	103.440
<b>75</b>	70.915	70.955	70.955	71.105	71.335	71.605	71.735	71.710	71.630
<b>80</b>	36.025	36.990	37.765	38.390	38.935	39.295	39.545	39.710	39.690
<b>85</b>	8.425	9.910	11.150	12.050	12.575	12.805	12.865	12.910	12.865
<b>90</b>	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440	2.440
<b>95</b>	21.495	26.595	25.975	20.845	19.390	19.520	19.135	18.425	18.820
<b>100</b>	66.160	65.885	61.020	54.355	49.815	45.795	42.195	40.820	40.990
<b>105</b>	122.045	112.555	101.560	88.595	78.890	71.685	66.515	63.895	63.495
<b>110</b>	169.025	153.670	136.890	119.665	106.715	98.010	91.720	88.540	88.395
<b>115</b>	217.335	191.615	168.530	148.705	133.620	123.295	116.180	112.385	112.075
<b>120</b>	250.220	220.910	195.520	175.165	158.815	147.655	140.840	136.445	134.665
<b>125</b>	274.320	245.225	219.455	198.130	181.050	169.330	162.285	158.025	155.915
<b>130</b>	291.730	264.505	240.150	219.175	202.210	189.475	180.895	175.455	171.380
<b>135</b>	302.965	278.425	255.835	237.070	221.485	209.655	201.840	196.980	194.975
<b>140</b>	309.200	288.360	268.810	251.450	237.875	226.720	219.270	214.730	212.620
<b>145</b>	311.655	294.340	278.185	263.680	251.815	242.485	235.490	231.830	229.720
<b>150</b>	310.905	297.345	284.210	273.395	263.225	256.400	250.140	247.560	245.815
<b>155</b>	308.540	298.440	289.195	280.190	273.705	267.970	263.690	261.465	259.855
<b>160</b>	305.685	298.545	291.645	286.710	281.950	277.370	275.365	273.665	272.385
<b>165</b>	301.445	298.005	294.560	291.140	287.765	286.230	284.950	283.785	282.865
<b>170</b>	299.375	297.350	295.345	294.385	293.505	292.685	291.930	291.220	290.620
<b>175</b>	298.140	297.795	297.440	297.085	296.730	296.375	296.015	295.680	295.355
<b>180</b>	297.000	297.000	297.000	297.000	297.000	297.000	297.000	297.000	297.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	171.95	N.A.	6.30
0-30	373.49	N.A.	13.70
0-40	624.96	N.A.	22.90
0-60	1130.23	N.A.	41.40
0-80	1366.75	N.A.	50.10
0-90	1380.98	N.A.	50.60
10-90	1337.36	N.A.	49.00
20-40	453.01	N.A.	16.60
20-50	720.22	N.A.	26.40
40-70	667.30	N.A.	24.50
60-80	236.52	N.A.	8.70
70-80	74.48	N.A.	2.70
80-90	14.23	N.A.	0.50
90-110	135.19	N.A.	5.00
90-120	350.82	N.A.	12.90
90-130	619.75	N.A.	22.70
90-150	1084.21	N.A.	39.70
90-180	1347.9	N.A.	49.40
110-180	1212.7	N.A.	44.40
0-180	2728.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	43.62
10-20	128.33
20-30	201.54
30-40	251.47
40-50	267.21
50-60	238.06
60-70	162.03
70-80	74.48
80-90	14.23
90-100	25.34
100-110	109.86
110-120	215.62
120-130	268.93
130-140	256.14
140-150	208.32
150-160	148.12
160-170	87.00
170-180	28.56

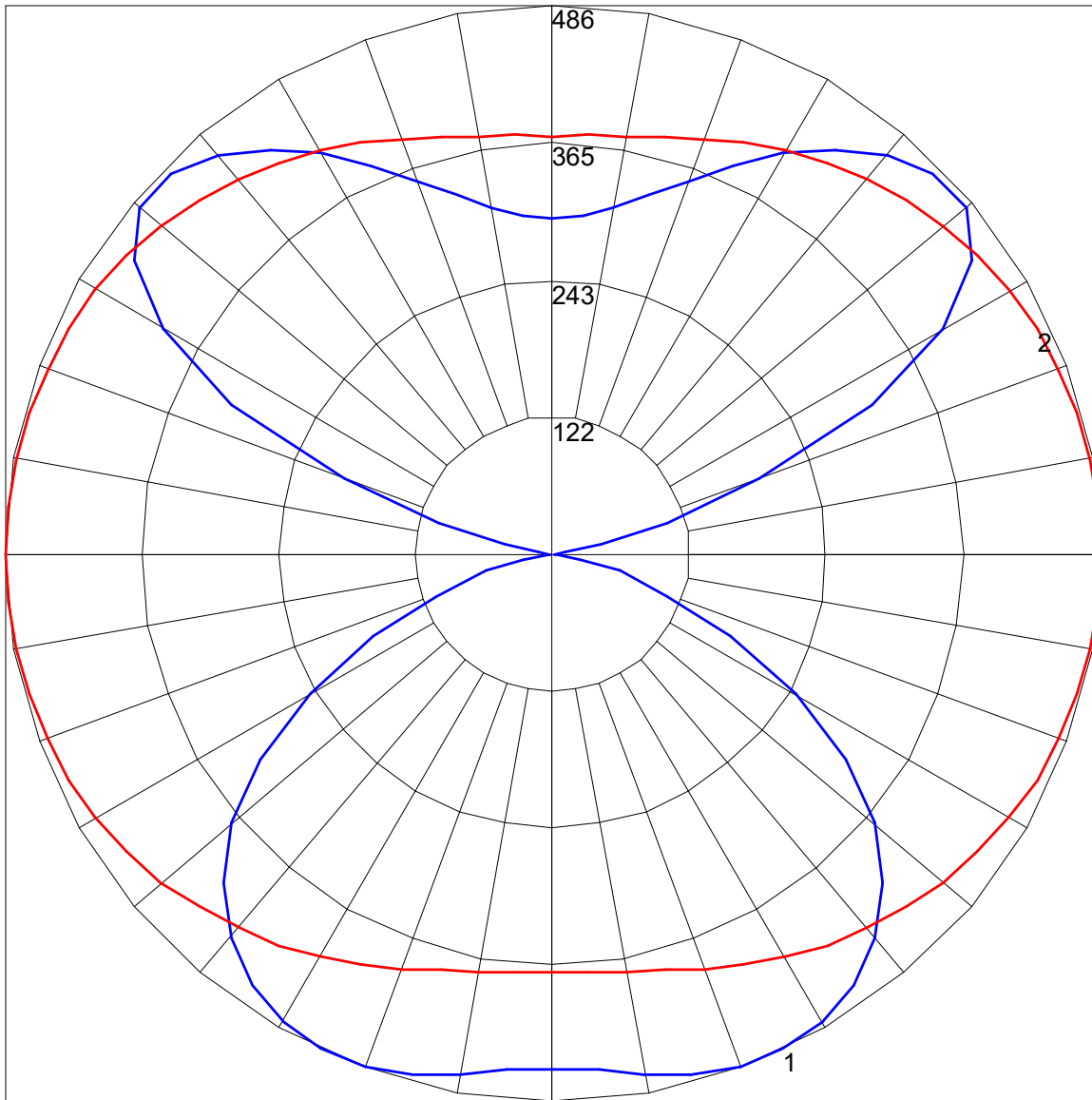
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	84	84	84	70	70	70	57	57	57	51
1	98	94	90	87	90	87	83	80	74	71	69	61	60	58	50	49	48	43
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	41	36
3	81	72	65	59	75	67	60	55	57	52	48	48	44	41	39	37	34	30
4	74	63	56	49	68	59	52	46	50	45	41	42	38	35	35	32	29	26
5	68	56	48	42	63	52	45	40	45	39	35	38	34	30	31	28	26	22
6	63	51	42	37	58	47	40	34	40	35	30	34	30	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	33	28	49	38	31	27	33	28	24	28	24	21	24	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	22	18	16	14
10	47	34	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

POLAR GRAPH



Maximum Candela = 486.475 Located At Horizontal Angle = 0, Vertical Angle = 25  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)