



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE_107_DB_SO_359_G1S1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911502R01 / L121911509 (SOURCE REPORTS FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 107-DB-48-Z-SO-359-G1S1-AL

[LUMINAIRE] DoubleBox LED, 48", 3500K, 90 CRI, zipper board, 120° batwing lens up /

[MORE] 40° symmetric lens down, standard 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	3847
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	47.84
Ballast Factor	1.00
CIE Type	Semi-Indirect
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	1527	3217	18533
55	879	1713	12777
65	534	949	8871
75	287	469	5918
85	8	58	2582

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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>
0.0	923.94	923.94	923.94	923.94	923.94	923.94	923.94	923.94	923.94	923.94
1.0	898.85	903.67	905.43	913.18	918.46	921.52	918.63	920.89	922.69	924.62
3.0	887.70	889.46	889.79	905.26	914.27	917.83	915.48	917.37	919.76	921.81
5.0	865.40	862.89	875.88	886.19	899.60	903.04	902.41	905.76	909.41	911.80
7.0	834.64	828.22	842.10	857.65	871.52	877.05	881.24	885.52	890.34	894.65
9.0	797.75	788.87	804.80	827.34	843.81	849.77	855.22	861.21	868.25	875.17
11.0	752.99	740.50	758.94	783.04	799.01	810.29	817.79	825.96	835.14	844.36
13.0	699.76	683.46	694.11	721.94	748.51	764.64	773.95	785.60	796.58	809.24
15.0	662.96	646.37	678.43	707.73	716.44	727.68	739.92	753.70	768.58	783.88
17.0	598.34	598.67	613.47	649.64	661.41	674.53	688.24	704.12	722.23	740.80
19.5	526.00	519.08	540.75	572.06	589.87	604.12	620.59	639.45	660.20	682.37
22.5	443.35	442.84	459.06	488.61	503.24	519.25	537.90	558.52	582.66	608.77
25.5	365.81	369.12	379.89	404.95	422.64	438.94	458.10	480.69	506.17	534.34
29.0	293.97	285.88	302.19	325.07	338.61	354.03	372.64	394.94	420.96	449.67
33.0	221.46	216.90	227.12	248.12	260.27	273.94	290.32	310.48	334.88	361.74
37.5	164.71	164.30	171.50	184.37	193.42	204.20	217.57	234.33	254.95	278.25
42.5	121.96	119.03	125.78	134.75	141.70	149.58	159.39	172.09	187.56	205.91
47.5	93.97	92.00	96.57	102.73	107.29	112.66	119.62	128.67	140.03	153.44
55.0	66.56	65.47	67.73	70.71	72.97	76.20	80.14	85.33	91.96	100.30
65.0	41.91	42.00	42.50	43.55	44.72	45.98	47.74	49.96	52.85	56.46
75.0	22.63	22.42	22.76	23.09	23.43	23.89	24.48	25.19	26.24	27.49
85.0	0.59	0.63	0.63	0.75	0.88	1.09	1.43	1.80	2.31	3.23
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	66.56	66.68	66.93	67.23	67.40	67.19	66.35	64.59	61.74	57.63
100.0	158.34	158.55	158.72	158.81	158.64	157.72	155.58	151.68	145.48	136.84
105.0	264.55	264.68	264.84	264.80	264.55	262.91	259.39	253.19	243.13	228.67
110.0	381.40	381.23	381.15	380.90	379.81	376.79	371.26	361.62	346.95	326.91
115.0	499.42	499.47	499.17	497.87	495.40	490.29	481.86	468.33	448.42	422.22
120.0	613.42	612.96	612.08	609.53	605.08	597.67	585.76	568.16	543.05	510.78
125.0	718.37	717.62	715.40	711.50	704.79	693.98	678.26	656.64	627.17	590.58
130.0	808.90	807.90	804.38	798.59	789.29	775.58	756.51	730.74	696.49	654.41
135.0	879.23	878.02	872.82	864.60	852.58	835.14	812.93	782.25	743.31	697.63
140.0	922.90	920.77	915.69	905.93	891.30	870.56	843.82	809.11	767.24	721.52
145.0	938.08	935.73	928.85	916.41	899.01	875.12	846.04	810.79	770.39	727.13
150.0	915.95	913.56	906.05	892.52	875.12	851.53	823.87	792.52	757.48	721.81
155.0	864.06	862.01	855.26	844.28	829.02	808.94	786.90	762.13	735.39	707.98
160.0	797.67	796.33	791.22	783.38	772.57	759.03	742.22	724.32	704.21	683.50
165.0	727.26	726.34	723.02	717.66	710.58	701.57	691.72	680.32	668.37	655.80
170.0	663.38	663.05	661.58	659.28	656.47	652.74	648.21	643.69	638.95	634.09
175.0	628.01	627.80	627.30	627.13	626.67	625.83	625.12	624.24	623.27	622.69
180.0	619.50	619.50	619.50	619.50	619.50	619.50	619.50	619.50	619.50	619.50

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>
0.0	923.94	923.94	923.94	923.94	923.94	923.94	923.94	923.94	923.94
1.0	925.75	926.76	930.11	930.82	932.67	933.00	933.46	932.88	933.13
3.0	923.20	924.62	927.01	927.51	933.26	931.96	932.33	932.50	932.71
5.0	914.35	917.33	919.80	922.06	925.38	926.72	927.89	930.53	928.44
7.0	899.22	903.62	907.98	911.34	917.24	919.72	921.77	922.78	924.16
9.0	882.21	888.49	893.94	899.73	904.84	908.82	912.80	915.53	919.55
11.0	853.83	863.01	871.77	880.36	886.36	892.39	898.47	903.08	907.06
13.0	821.64	833.76	845.32	857.35	866.03	873.70	882.71	886.52	891.64
15.0	800.35	814.81	829.56	842.14	853.58	862.80	869.00	872.44	874.20

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CANDELA TABULATION - (Cont.)

17.0	759.99	778.01	795.57	812.76	826.72	836.31	845.41	851.36	853.41
19.5	705.55	727.26	749.05	770.97	788.66	803.03	812.67	819.55	822.48
22.5	636.10	662.25	689.08	715.35	736.69	755.13	768.29	775.96	779.15
25.5	564.56	593.77	624.28	653.87	679.77	701.52	715.73	726.00	729.60
29.0	481.36	513.13	546.62	578.39	606.97	632.20	648.17	660.58	664.81
33.0	393.18	424.23	458.01	491.92	522.43	544.14	565.81	579.39	584.51
37.5	305.83	334.16	365.10	397.24	427.04	453.15	473.48	486.43	489.95
42.5	226.95	251.18	277.04	305.20	331.94	355.50	373.81	384.75	389.36
47.5	169.07	188.23	208.68	230.98	252.69	272.81	287.98	297.53	301.60
55.0	109.43	120.79	133.95	148.08	162.33	175.95	187.43	194.56	197.49
65.0	60.94	66.22	72.38	79.38	86.59	93.55	99.42	103.40	104.70
75.0	29.13	31.14	33.45	36.17	38.89	41.70	44.05	45.52	46.10
85.0	4.57	6.08	7.33	7.88	8.26	8.63	8.97	9.10	9.14
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	52.35	46.44	40.70	36.04	32.99	30.89	29.67	29.17	28.75
100.0	125.23	112.41	100.59	91.33	85.33	81.48	79.13	77.20	76.03
105.0	210.27	189.61	170.83	155.83	146.02	139.53	134.62	131.19	129.84
110.0	300.26	271.72	245.40	224.31	209.85	199.63	191.92	186.89	185.25
115.0	387.85	352.77	319.16	292.30	272.81	258.30	247.57	240.87	238.48
120.0	470.88	429.52	389.41	356.29	331.73	313.46	300.05	291.79	288.94
125.0	545.02	498.08	452.15	413.55	384.71	363.46	347.54	337.98	335.13
130.0	604.16	552.74	504.12	462.75	432.28	408.48	390.41	380.35	376.87
135.0	645.07	593.89	544.90	504.66	473.61	448.08	429.10	419.08	415.94
140.0	670.51	622.27	577.42	539.87	508.44	482.99	464.85	455.08	451.98
145.0	682.16	640.58	601.82	566.74	537.19	513.51	497.41	488.86	485.68
150.0	684.97	651.10	617.07	586.27	560.62	540.58	526.83	520.25	517.45
155.0	678.60	650.56	623.32	598.84	579.18	564.30	553.87	548.67	546.11
160.0	662.29	642.55	623.40	606.80	594.06	583.58	577.17	573.73	571.09
165.0	643.14	631.82	622.18	612.71	604.83	599.85	596.28	593.68	592.22
170.0	629.06	624.20	620.05	616.40	613.63	611.58	610.07	608.27	607.56
175.0	622.06	620.89	620.17	619.67	618.54	617.87	617.16	616.65	616.36
180.0	619.50	619.50	619.50	619.50	619.50	619.50	619.50	619.50	619.50

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	288.07	N.A.	7.50
0-30	530.76	N.A.	13.80
0-40	724.64	N.A.	18.80
0-60	990.86	N.A.	25.80
0-80	1125.14	N.A.	29.20
0-90	1145.27	N.A.	29.80
10-90	1075.93	N.A.	28.00
20-40	436.58	N.A.	11.30
20-50	609.61	N.A.	15.80
40-70	351.49	N.A.	9.10
60-80	134.28	N.A.	3.50
70-80	49.01	N.A.	1.30
80-90	20.12	N.A.	0.50
90-110	285.53	N.A.	7.40
90-120	671.85	N.A.	17.50
90-130	1164.96	N.A.	30.30
90-150	2128.45	N.A.	55.30
90-180	2701.38	N.A.	70.20
110-180	2415.85	N.A.	62.80
0-180	3846.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	69.33
10-20	218.73
20-30	242.70
30-40	193.88
40-50	173.03
50-60	93.19
60-70	85.27
70-80	49.01
80-90	20.12
90-100	62.23
100-110	223.30
110-120	386.32
120-130	493.11
130-140	514.38
140-150	449.12
150-160	325.88
160-170	187.22
170-180	59.83

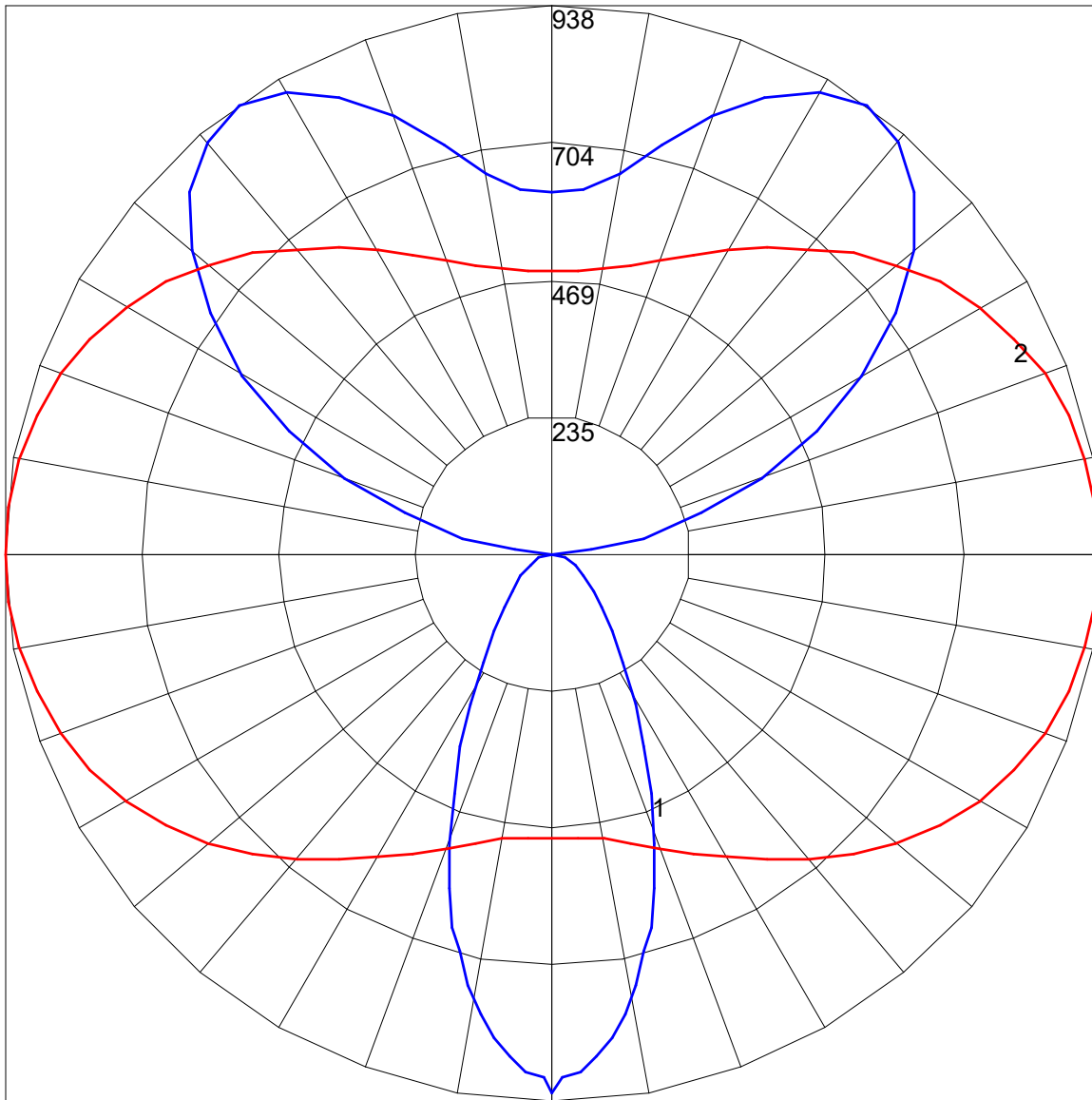
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	38	38	38	30
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	34	33	33	26
2	86	79	73	69	77	71	66	62	57	53	51	43	41	39	31	29	28	23
3	79	70	63	58	70	63	58	53	50	47	43	39	36	34	28	26	25	20
4	72	62	55	50	65	56	50	45	45	41	37	35	32	30	25	24	22	18
5	67	56	48	43	60	51	44	40	41	36	33	32	29	26	23	21	20	16
6	62	50	43	38	55	46	39	35	37	32	29	29	26	23	21	19	18	15
7	57	46	38	33	51	42	35	31	34	29	26	27	23	21	20	18	16	13
8	53	42	34	30	48	38	32	27	31	26	23	25	21	19	18	16	15	12
9	49	38	31	26	45	35	29	25	29	24	21	23	20	17	17	15	14	11
10	46	35	28	24	42	32	26	22	26	22	19	21	18	16	16	14	13	11

POLAR GRAPH



Maximum Candela = 938.08 Located At Horizontal Angle = 0, Vertical Angle = 145
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (145) (Through Max. Cd.)