



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE_107_DB_SO_359_G1S2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911502R01 / L121911510 (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-G1S2-AL

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

[MORE] 60° 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	4246
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
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	2277	4512	24837
55	1228	2339	17533
65	726	1277	12116
75	393	631	8088
85	0	107	3672

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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	1124.00	1124.00	1124.00	1124.00	1124.00	1124.00	1124.00	1124.00	1124.00	1124.00
5	1105.00	1104.00	1104.00	1104.00	1104.00	1104.00	1103.00	1107.00	1110.00	1112.00
10	1048.00	1043.00	1044.00	1044.00	1045.00	1045.00	1047.00	1056.00	1064.00	1070.00
15	942.00	932.00	934.00	937.00	941.00	943.00	950.00	968.00	985.00	997.00
20	790.00	777.00	782.00	787.00	792.00	798.00	810.00	836.00	865.00	891.00
25	616.00	600.00	607.00	614.00	624.00	634.00	653.00	686.00	724.00	755.00
30	451.00	437.00	444.00	452.00	465.00	476.00	494.00	529.00	571.00	607.00
35	318.00	307.00	313.00	321.00	328.00	339.00	357.00	389.00	428.00	467.00
40	224.00	217.00	221.00	227.00	236.00	244.00	257.00	281.00	313.00	345.00
45	161.00	156.00	160.00	164.00	169.00	175.00	185.00	204.00	227.00	252.00
50	120.00	117.00	119.00	122.00	126.00	130.00	137.00	149.00	166.00	184.00
55	93.00	91.00	92.00	94.00	97.00	99.00	104.00	113.00	123.00	137.00
60	73.00	72.00	73.00	74.00	76.00	78.00	81.00	86.00	93.00	102.00
65	57.00	56.00	57.00	58.00	59.00	60.00	62.00	65.00	70.00	76.00
70	43.00	43.00	43.00	44.00	44.00	45.00	46.00	49.00	51.00	55.00
75	31.00	30.00	31.00	31.00	31.00	32.00	32.00	33.00	35.00	37.00
80	19.00	19.00	19.00	19.00	19.00	19.00	19.00	20.00	21.00	22.00
85	0.00	0.00	0.00	1.00	1.00	1.00	2.00	2.00	4.00	6.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	66.56	66.68	66.93	67.23	67.40	67.19	66.35	64.59	61.74	57.63
100	158.34	158.55	158.72	158.81	158.64	157.72	155.58	151.68	145.48	136.84
105	264.55	264.68	264.84	264.80	264.55	262.91	259.39	253.19	243.13	228.67
110	381.40	381.23	381.15	380.90	379.81	376.79	371.26	361.62	346.95	326.91
115	499.42	499.47	499.17	497.87	495.40	490.29	481.86	468.33	448.42	422.22
120	613.42	612.96	612.08	609.53	605.08	597.67	585.76	568.16	543.05	510.78
125	718.37	717.62	715.40	711.50	704.79	693.98	678.26	656.64	627.17	590.58
130	808.90	807.90	804.38	798.59	789.29	775.58	756.51	730.74	696.49	654.41
135	879.23	878.02	872.82	864.60	852.58	835.14	812.93	782.25	743.31	697.63
140	922.90	920.77	915.69	905.93	891.30	870.56	843.82	809.11	767.24	721.52
145	938.08	935.73	928.85	916.41	899.01	875.12	846.04	810.79	770.39	727.13
150	915.95	913.56	906.05	892.52	875.12	851.53	823.87	792.52	757.48	721.81
155	864.06	862.01	855.26	844.28	829.02	808.94	786.90	762.13	735.39	707.98
160	797.67	796.33	791.22	783.38	772.57	759.03	742.22	724.32	704.21	683.50
165	727.26	726.34	723.02	717.66	710.58	701.57	691.72	680.32	668.37	655.80
170	663.38	663.05	661.58	659.28	656.47	652.74	648.21	643.69	638.95	634.09
175	628.01	627.80	627.30	627.13	626.67	625.83	625.12	624.24	623.27	622.69
180	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	1124.00	1124.00	1124.00	1124.00	1124.00	1124.00	1124.00	1124.00	1124.00
5	1114.00	1115.00	1116.00	1117.00	1118.00	1118.00	1119.00	1119.00	1119.00
10	1075.00	1080.00	1085.00	1089.00	1092.00	1094.00	1096.00	1097.00	1097.00
15	1008.00	1019.00	1031.00	1040.00	1047.00	1052.00	1055.00	1058.00	1058.00
20	913.00	933.00	952.00	968.00	979.00	988.00	994.00	998.00	999.00
25	786.00	819.00	847.00	870.00	889.00	903.00	912.00	918.00	920.00
30	647.00	685.00	723.00	754.00	780.00	798.00	810.00	818.00	820.00
35	508.00	552.00	591.00	628.00	657.00	679.00	694.00	702.00	705.00
40	382.00	422.00	462.00	500.00	531.00	554.00	570.00	579.00	582.00
45	282.00	314.00	350.00	384.00	412.00	435.00	451.00	460.00	463.00
50	206.00	231.00	260.00	287.00	311.00	331.00	346.00	354.00	357.00
55	152.00	170.00	190.00	211.00	231.00	248.00	260.00	267.00	271.00
60	113.00	125.00	140.00	155.00	169.00	181.00	191.00	197.00	199.00

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CANDELA TABULATION - (Cont.)

65	83.00	91.00	101.00	111.00	121.00	130.00	137.00	142.00	143.00
70	59.00	64.00	71.00	77.00	84.00	90.00	95.00	98.00	99.00
75	39.00	42.00	46.00	50.00	54.00	57.00	60.00	62.00	63.00
80	23.00	24.00	26.00	28.00	30.00	31.00	33.00	34.00	34.00
85	8.00	9.00	10.00	11.00	11.00	12.00	12.00	13.00	13.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	52.35	46.44	40.70	36.04	32.99	30.89	29.67	29.17	28.75
100	125.23	112.41	100.59	91.33	85.33	81.48	79.13	77.20	76.03
105	210.27	189.61	170.83	155.83	146.02	139.53	134.62	131.19	129.84
110	300.26	271.72	245.40	224.31	209.85	199.63	191.92	186.89	185.25
115	387.85	352.77	319.16	292.30	272.81	258.30	247.57	240.87	238.48
120	470.88	429.52	389.41	356.29	331.73	313.46	300.05	291.79	288.94
125	545.02	498.08	452.15	413.55	384.71	363.46	347.54	337.98	335.13
130	604.16	552.74	504.12	462.75	432.28	408.48	390.41	380.35	376.87
135	645.07	593.89	544.90	504.66	473.61	448.08	429.10	419.08	415.94
140	670.51	622.27	577.42	539.87	508.44	482.99	464.85	455.08	451.98
145	682.16	640.58	601.82	566.74	537.19	513.51	497.41	488.86	485.68
150	684.97	651.10	617.07	586.27	560.62	540.58	526.83	520.25	517.45
155	678.60	650.56	623.32	598.84	579.18	564.30	553.87	548.67	546.11
160	662.29	642.55	623.40	606.80	594.06	583.58	577.17	573.73	571.09
165	643.14	631.82	622.18	612.71	604.83	599.85	596.28	593.68	592.22
170	629.06	624.20	620.05	616.40	613.63	611.58	610.07	608.27	607.56
175	622.06	620.89	620.17	619.67	618.54	617.87	617.16	616.65	616.36
180	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	382.09	N.A.	9.00
0-30	728.26	N.A.	17.20
0-40	1034.85	N.A.	24.40
0-60	1401.47	N.A.	33.00
0-80	1534.65	N.A.	36.10
0-90	1544.5	N.A.	36.40
10-90	1439.8	N.A.	33.90
20-40	652.76	N.A.	15.40
20-50	874.50	N.A.	20.60
40-70	454.97	N.A.	10.70
60-80	133.18	N.A.	3.10
70-80	44.83	N.A.	1.10
80-90	9.85	N.A.	0.20
90-110	285.53	N.A.	6.70
90-120	671.85	N.A.	15.80
90-130	1164.96	N.A.	27.40
90-150	2128.45	N.A.	50.10
90-180	2701.38	N.A.	63.60
110-180	2415.85	N.A.	56.90
0-180	4245.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	104.70
10-20	277.39
20-30	346.18
30-40	306.59
40-50	221.73
50-60	144.88
60-70	88.35
70-80	44.83
80-90	9.85
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

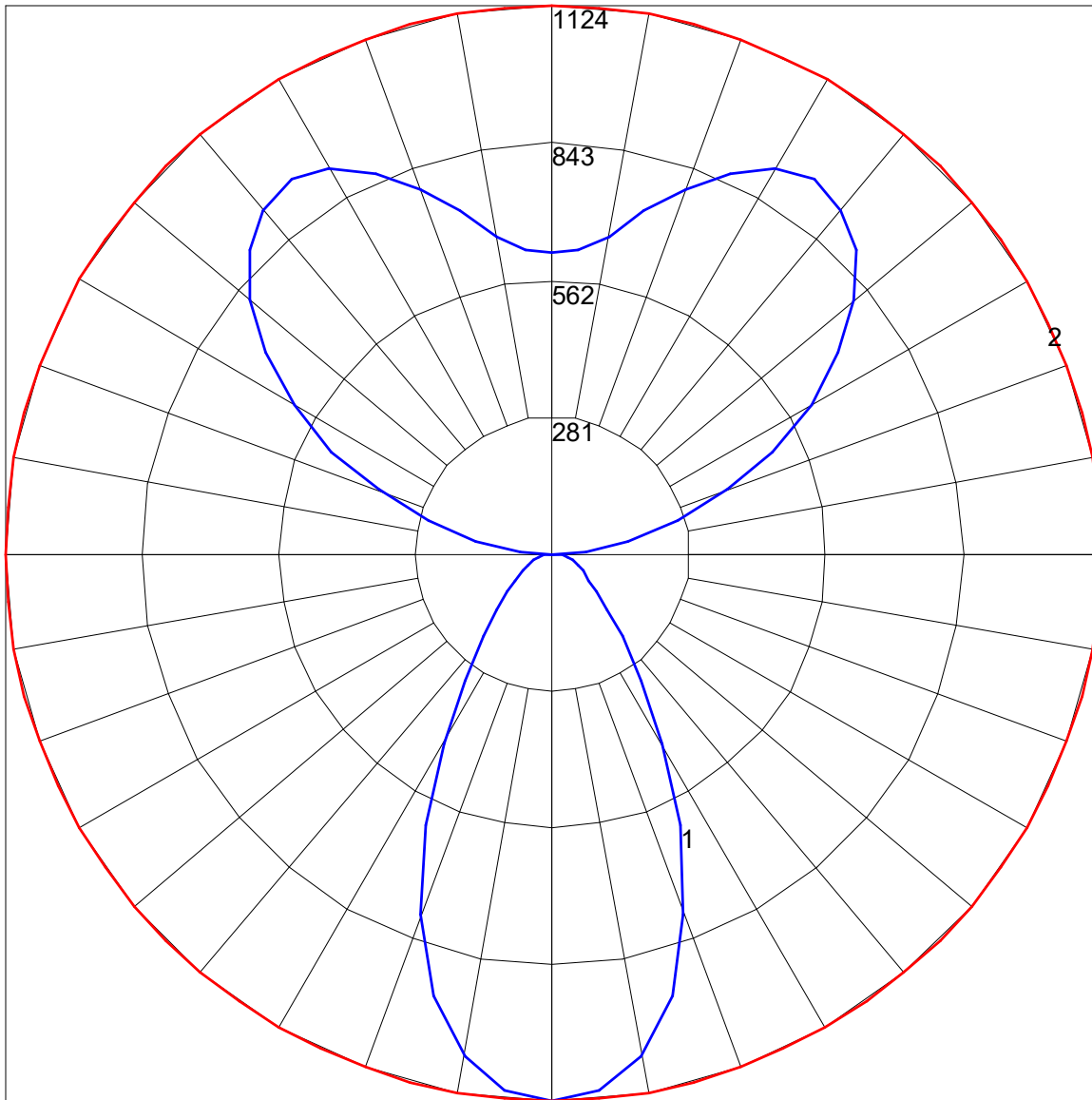
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	96	92	88	85	87	83	80	78	68	66	64	53	52	51	40	39	38	32
2	88	81	76	71	79	74	69	65	60	57	54	48	46	44	36	35	34	29
3	81	72	66	60	73	66	60	56	54	50	47	43	40	38	33	31	30	25
4	74	64	57	52	67	59	53	48	49	44	41	39	36	34	30	28	27	23
5	69	58	51	45	62	53	47	42	44	39	36	36	32	30	28	26	24	21
6	63	52	45	40	58	48	42	37	40	35	32	33	29	27	26	23	22	19
7	59	48	40	35	54	44	37	33	37	32	28	30	27	24	24	21	20	17
8	55	43	36	31	50	40	34	29	34	29	26	28	24	22	22	20	18	16
9	51	40	33	28	47	37	31	27	31	26	23	26	22	20	21	18	17	14
10	48	37	30	26	44	34	28	24	29	24	21	24	21	18	19	17	15	13

POLAR GRAPH



Maximum Candela = 1124 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)