

**IES Report**

**BoxRail® | 107 | 40° Symmetric | 90 CRI | SO**

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-359-S1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	45	46	47	48
Total Lumens, 4' rail length (1219mm)	1060	1094	1116	1138
Lumens per foot (305mm)	265	273	279	285
Input Power (W), 4' rail length (1219mm)	24.1	24.1	24.1	24.1
Watts per foot (305mm)	6.1	6.1	6.1	6.1
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\_BX\_SO\_359\_S1.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L071704208 (SOURCE REPORT FOR REFERENCE)  
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB  
[ISSUEDATE] 11/1/2017  
[MANUFAC] Vode Lighting  
[LUMCAT] 107-BX-48-Z-SO-359-S1-AL/WH  
[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,  
[MORE] 40° white symmetric lens, standard output  
[TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1116
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	46
Total Luminaire Watts	24.06
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.68
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	0.86
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.02 ft
Luminous Width (90-270)	3.85 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18434	29917	78972
55	13908	20117	52156
65	12135	15505	34381
75	11008	12659	23667
85	0	3269	13076

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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>0.0</b>	919.02	919.02	919.02	919.02	919.02	919.02	919.02	919.02	919.02	919.02
<b>1.0</b>	882.30	881.28	880.26	886.38	902.70	918.00	925.14	926.16	927.18	928.20
<b>3.0</b>	875.16	875.16	874.14	882.30	898.62	912.90	919.02	920.04	922.08	923.10
<b>5.0</b>	859.86	859.86	859.86	868.02	886.38	899.64	904.74	906.78	909.84	911.88
<b>7.0</b>	830.28	830.28	831.30	839.46	858.84	875.16	878.22	882.30	887.40	893.52
<b>9.0</b>	794.58	794.58	795.60	803.76	823.14	840.48	844.56	850.68	858.84	867.00
<b>11.0</b>	755.82	755.82	755.82	763.98	785.40	798.66	803.76	812.94	824.16	836.40
<b>13.0</b>	703.80	704.82	706.86	717.06	737.46	752.76	758.88	771.12	786.42	802.74
<b>15.0</b>	650.76	651.78	655.86	667.08	687.48	701.76	706.86	721.14	740.52	759.90
<b>17.0</b>	593.64	594.66	597.72	614.04	634.44	645.66	651.78	669.12	691.56	714.00
<b>19.5</b>	517.14	519.18	526.32	544.68	563.04	572.22	580.38	603.84	629.34	656.88
<b>22.5</b>	433.50	435.54	442.68	457.98	474.30	484.50	493.68	519.18	549.78	583.44
<b>25.5</b>	354.96	357.00	364.14	377.40	390.66	398.82	411.06	438.60	469.20	504.90
<b>29.0</b>	274.38	276.42	282.54	293.76	308.04	315.18	326.40	349.86	381.48	416.16
<b>33.0</b>	202.98	204.00	209.10	218.28	230.52	238.68	246.84	268.26	295.80	328.44
<b>37.5</b>	146.88	147.90	151.98	158.10	165.24	170.34	178.50	196.86	219.30	245.82
<b>42.5</b>	106.08	107.10	109.14	113.22	118.32	123.42	128.52	139.74	155.04	175.44
<b>47.5</b>	80.58	81.60	82.62	85.68	88.74	91.80	95.88	103.02	114.24	127.50
<b>55.0</b>	57.12	57.12	58.14	59.16	61.20	63.24	65.28	70.38	75.48	82.62
<b>65.0</b>	36.72	36.72	36.72	37.74	38.76	38.76	39.78	41.82	43.86	46.92
<b>75.0</b>	20.40	20.40	20.40	20.40	20.40	21.42	21.42	22.44	22.44	23.46
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	1.02	1.02	1.02	2.04
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**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>0.0</b>	919.02	919.02	919.02	919.02	919.02	919.02	919.02	919.02	919.02
<b>1.0</b>	928.20	929.22	930.24	931.26	932.28	933.30	933.30	933.30	935.34
<b>3.0</b>	924.12	926.16	929.22	930.24	931.26	934.32	935.34	933.30	933.30
<b>5.0</b>	915.96	918.00	921.06	924.12	927.18	929.22	933.30	931.26	931.26
<b>7.0</b>	898.62	903.72	908.82	913.92	918.00	922.08	927.18	927.18	927.18
<b>9.0</b>	875.16	884.34	892.50	899.64	907.80	912.90	918.00	922.08	923.10
<b>11.0</b>	848.64	859.86	872.10	887.40	896.58	904.74	911.88	912.90	913.92
<b>13.0</b>	819.06	835.38	850.68	864.96	878.22	888.42	899.64	901.68	903.72
<b>15.0</b>	781.32	801.72	821.10	840.48	857.82	874.14	885.36	892.50	894.54
<b>17.0</b>	740.52	765.00	790.50	813.96	834.36	851.70	865.98	877.20	880.26
<b>19.5</b>	686.46	718.08	748.68	777.24	801.72	828.24	843.54	851.70	854.76
<b>22.5</b>	618.12	654.84	690.54	726.24	757.86	786.42	805.80	819.06	822.12
<b>25.5</b>	542.64	584.46	626.28	667.08	704.82	738.48	763.98	780.30	785.40
<b>29.0</b>	456.96	500.82	547.74	594.66	637.50	676.26	707.88	725.22	732.36
<b>33.0</b>	369.24	412.08	459.00	507.96	554.88	598.74	633.42	652.80	659.94
<b>37.5</b>	279.48	319.26	364.14	411.06	457.98	500.82	537.54	559.98	566.10
<b>42.5</b>	201.96	232.56	270.30	311.10	352.92	391.68	426.36	446.76	453.90
<b>47.5</b>	145.86	168.30	195.84	227.46	261.12	293.76	321.30	338.64	345.78
<b>55.0</b>	91.80	104.04	120.36	138.72	159.12	180.54	197.88	209.10	214.20
<b>65.0</b>	51.00	56.10	62.22	70.38	79.56	88.74	96.90	102.00	104.04
<b>75.0</b>	25.50	27.54	29.58	31.62	34.68	37.74	40.80	42.84	43.86
<b>85.0</b>	4.08	6.12	7.14	7.14	8.16	8.16	8.16	8.16	8.16
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	285.97	N.A.	25.60
0-30	525.93	N.A.	47.10
0-40	718.18	N.A.	64.30
0-60	976.28	N.A.	87.50
0-80	1098.33	N.A.	98.40
0-90	1116.16	N.A.	100.00
10-90	1047.05	N.A.	93.80
20-40	432.21	N.A.	38.70
20-50	601.89	N.A.	53.90
40-70	336.31	N.A.	30.10
60-80	122.05	N.A.	10.90
70-80	43.84	N.A.	3.90
80-90	17.83	N.A.	1.60
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1116.16	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	69.11
10-20	216.86
20-30	239.96
30-40	192.25
40-50	169.68
50-60	88.43
60-70	78.20
70-80	43.84
80-90	17.83
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

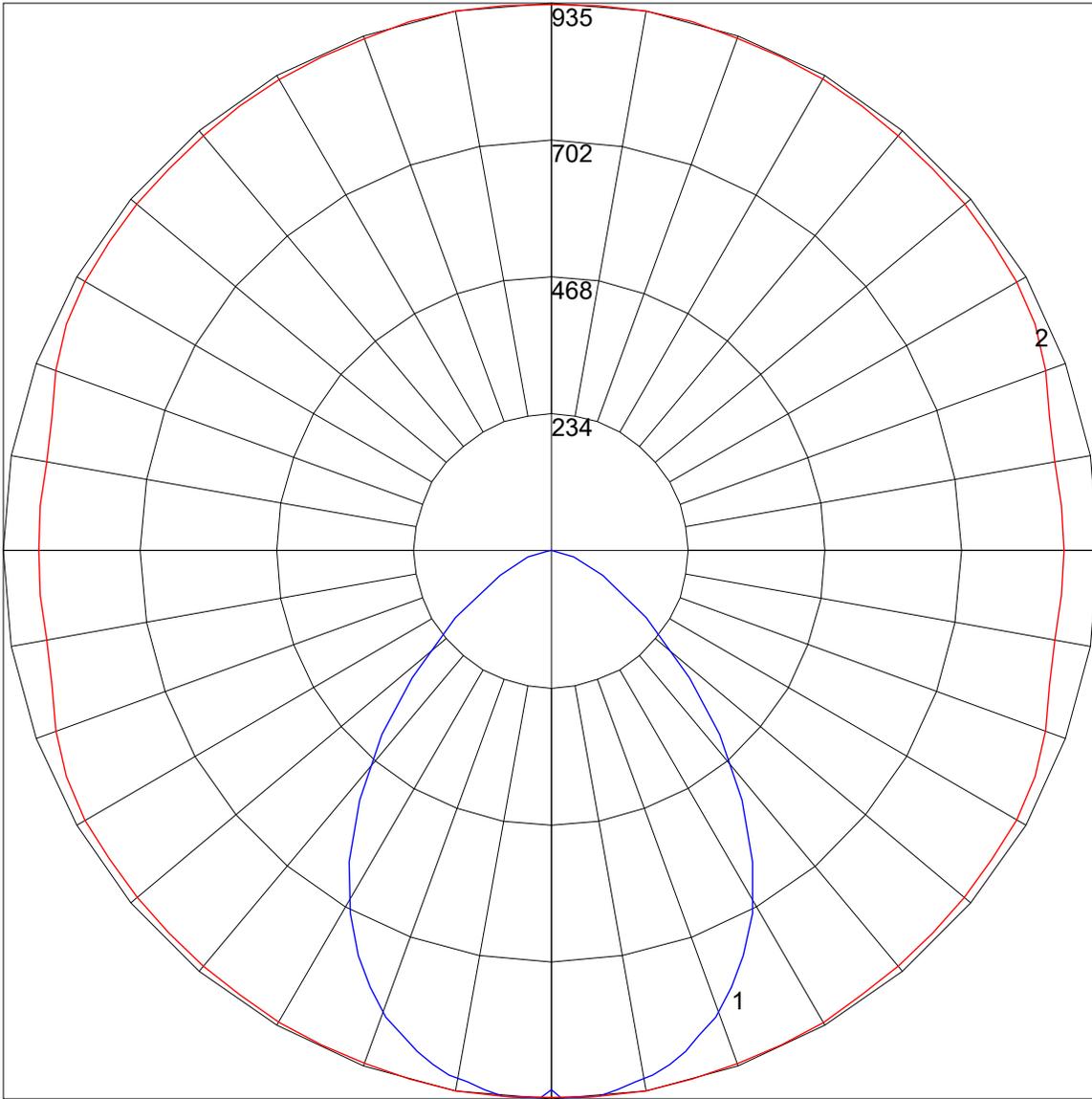
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	103	96	90	85	100	94	89	85	91	86	83	87	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	74	70	68
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55
6	78	66	59	53	76	66	58	53	64	58	53	62	57	52	61	56	52	50
7	73	61	54	49	72	61	54	48	59	53	48	58	52	48	57	52	48	46
8	69	57	50	45	67	56	49	45	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	41	38	36

POLAR GRAPH



Maximum Candela = 935.34 Located At Horizontal Angle = 80, Vertical Angle = 3  
# 1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (3) (Through Max. Cd.)