

IES Report

BoxRail® | 107 | 60° Symmetric | 90 CRI | SO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-359-S2-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	41	43	43	44
Total Lumens, 4' rail length (1219mm)	981	1012	1033	1054
Lumens per foot (305mm)	245	253	258	263
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_S2-BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L071704212 (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-S2-BL
[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,
[MORE] 60° black 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	1033
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	43
Total Luminaire Watts	24.07
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.78
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	0.88
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.02 ft
Luminous Width (90-270)	3.83 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13062	26023	71082
55	6491	12732	39446
65	3727	7454	20669
75	2766	4979	11619
85	0	1643	6572

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0.0	931.26	931.26	931.26	931.26	931.26	931.26	931.26	931.26	931.26	931.26
1.0	928.20	927.18	927.18	928.20	929.22	929.22	930.24	930.24	930.24	930.24
3.0	927.18	927.18	926.16	924.12	924.12	925.14	927.18	927.18	928.20	928.20
5.0	927.18	925.14	920.04	915.96	913.92	916.98	918.00	919.02	920.04	921.06
7.0	911.88	910.86	904.74	896.58	893.52	895.56	898.62	900.66	903.72	905.76
9.0	882.30	877.20	869.04	860.88	862.92	868.02	873.12	876.18	881.28	886.38
11.0	850.68	849.66	835.38	828.24	824.16	834.36	838.44	845.58	853.74	859.86
13.0	808.86	798.66	789.48	781.32	779.28	785.40	796.62	808.86	817.02	828.24
15.0	752.76	743.58	727.26	724.20	726.24	737.46	752.76	765.00	781.32	793.56
17.0	702.78	697.68	678.30	666.06	672.18	689.52	704.82	722.16	737.46	755.82
19.5	620.16	615.06	595.68	590.58	591.60	605.88	628.32	649.74	673.20	694.62
22.5	522.24	513.06	495.72	489.60	499.80	518.16	540.60	566.10	593.64	622.20
25.5	427.38	413.10	400.86	390.66	409.02	428.40	448.80	477.36	508.98	538.56
29.0	320.28	316.20	304.98	298.86	309.06	327.42	350.88	379.44	414.12	444.72
33.0	222.36	217.26	208.08	207.06	217.26	234.60	253.98	279.48	310.08	343.74
37.5	140.76	140.76	131.58	131.58	140.76	153.00	169.32	188.70	214.20	243.78
42.5	81.60	82.62	79.56	78.54	84.66	93.84	104.04	118.32	136.68	160.14
47.5	49.98	47.94	46.92	47.94	51.00	57.12	64.26	74.46	86.70	102.00
55.0	26.52	25.50	24.48	24.48	26.52	29.58	32.64	37.74	43.86	52.02
65.0	11.22	11.22	11.22	11.22	12.24	13.26	14.28	16.32	18.36	22.44
75.0	5.10	5.10	5.10	5.10	5.10	5.10	6.12	7.14	7.14	9.18
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	50	55	60	65	70	75	80	85	90
0.0	931.26	931.26	931.26	931.26	931.26	931.26	931.26	931.26	931.26
1.0	930.24	930.24	930.24	931.26	931.26	931.26	931.26	931.26	930.24
3.0	929.22	929.22	929.22	930.24	930.24	930.24	931.26	930.24	931.26
5.0	922.08	923.10	924.12	925.14	926.16	927.18	928.20	928.20	929.22
7.0	908.82	910.86	913.92	915.96	918.00	920.04	922.08	923.10	924.12
9.0	891.48	896.58	901.68	905.76	909.84	912.90	914.94	916.98	916.98
11.0	868.02	875.16	882.30	889.44	894.54	899.64	904.74	906.78	907.80
13.0	838.44	849.66	860.88	870.06	878.22	885.36	891.48	894.54	895.56
15.0	808.86	823.14	837.42	850.68	862.92	871.08	878.22	882.30	884.34
17.0	774.18	792.54	809.88	826.20	840.48	851.70	860.88	867.00	868.02
19.5	720.12	743.58	766.02	787.44	806.82	822.12	834.36	841.50	844.56
22.5	650.76	680.34	710.94	739.50	763.98	784.38	798.66	808.86	811.92
25.5	575.28	612.00	646.68	680.34	709.92	735.42	754.80	766.02	770.10
29.0	484.50	525.30	566.10	606.90	642.60	672.18	694.62	708.90	712.98
33.0	381.48	425.34	471.24	515.10	554.88	588.54	616.08	631.38	636.48
37.5	280.50	319.26	362.10	406.98	448.80	484.50	514.08	531.42	537.54
42.5	188.70	219.30	255.00	295.80	327.42	365.16	392.70	410.04	415.14
47.5	121.38	145.86	172.38	201.96	231.54	259.08	280.50	294.78	300.90
55.0	62.22	74.46	88.74	105.06	120.36	136.68	149.94	158.10	161.16
65.0	25.50	30.60	35.70	41.82	47.94	53.04	58.14	61.20	62.22
75.0	10.20	11.22	13.26	15.30	17.34	18.36	20.40	21.42	21.42
85.0	1.02	2.04	3.06	3.06	3.06	4.08	4.08	4.08	4.08
90.0	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	296.28	N.A.	28.70
0-30	546.45	N.A.	52.90
0-40	738.97	N.A.	71.50
0-60	957.92	N.A.	92.70
0-80	1026.04	N.A.	99.30
0-90	1033.15	N.A.	100.00
10-90	962.56	N.A.	93.20
20-40	442.69	N.A.	42.80
20-50	594.92	N.A.	57.60
40-70	266.57	N.A.	25.80
60-80	68.12	N.A.	6.60
70-80	20.50	N.A.	2.00
80-90	7.11	N.A.	0.70
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	1033.15	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	70.59
10-20	225.69
20-30	250.17
30-40	192.52
40-50	152.23
50-60	66.72
60-70	47.62
70-80	20.50
80-90	7.11
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

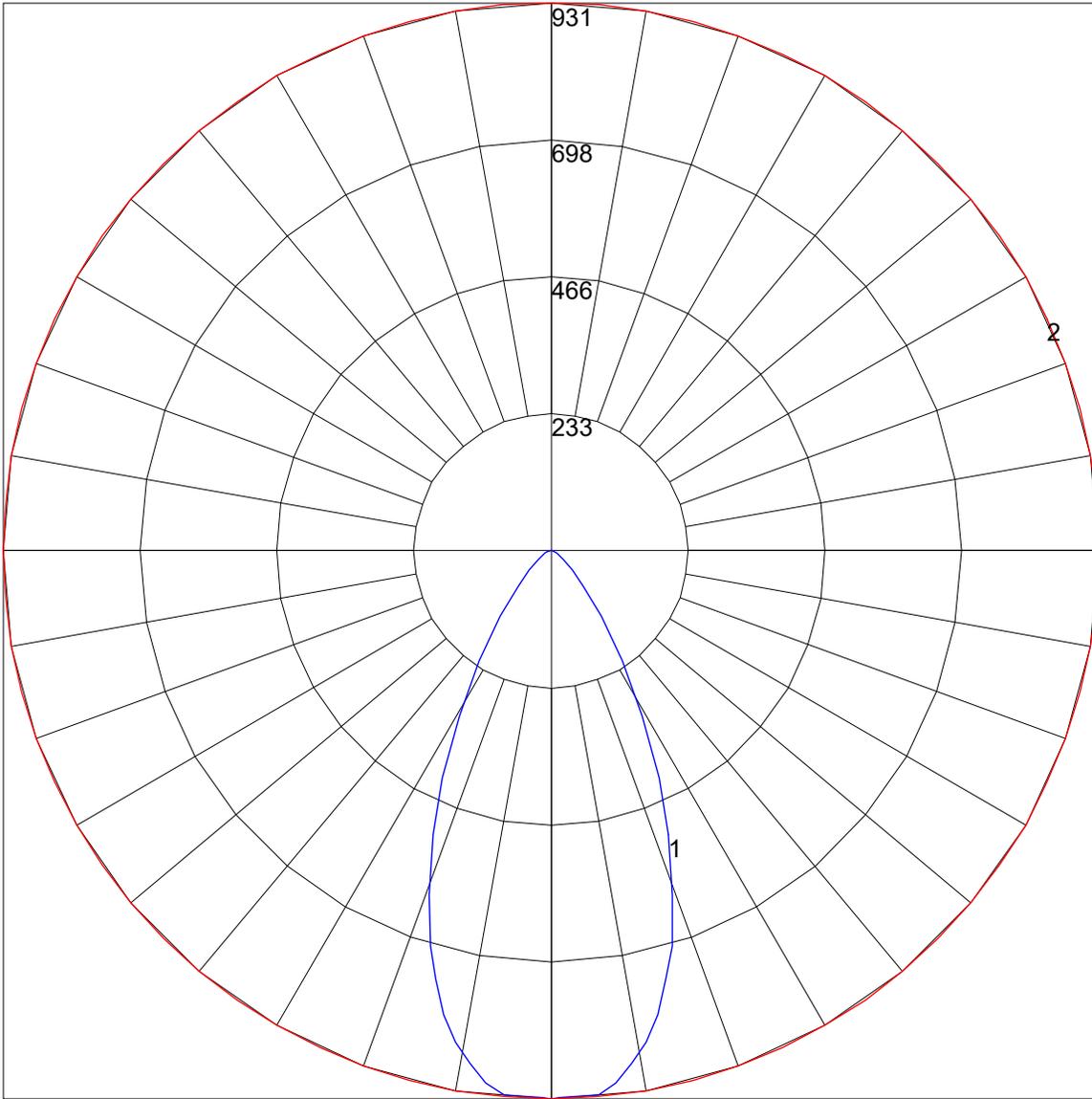
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	76	69	63	84	75	68	63	73	67	63	71	66	62	69	65	61	60
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50
8	72	61	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46
9	68	57	50	45	67	56	49	45	55	49	45	54	49	45	53	48	44	43
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40

POLAR GRAPH



Maximum Candela = 931.26 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.)