

IES Report

BoxRail® | 107 | 40° Symmetric | 90 CRI | LO

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	40	41	42	42
Total Lumens, 4' rail length (1219mm)	544	561	573	578
Lumens per foot (305mm)	136	140	143	145
Input Power (W), 4' rail length (1219mm)	13.8	13.8	13.8	13.8
Watts per foot (305mm)	3.5	3.5	3.5	3.5
CRI	94	94	94	94

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-LO-359-S1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911509R01 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 107-BX-48-Z-LO-359-S1-AL

[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board, 40° white symmetric lens,

[MORE] 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	573
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	41
Total Luminaire Watts	13.82
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.70
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.90
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.01 ft
Luminous Width (90-270)	3.84 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	21380	35580	68413
55	16249	24486	48212
65	13886	18707	34690
75	12243	14872	24941
85	948	5189	14684

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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	461.970	461.970	461.970	461.970	461.970	461.970	461.970	461.970	461.970	461.970
1.0	449.425	451.835	452.715	456.590	459.230	460.760	459.315	460.445	461.345	462.310
3.0	443.850	444.730	444.895	452.630	457.135	458.915	457.740	458.685	459.880	460.905
5.0	432.700	431.445	437.940	443.095	449.800	451.520	451.205	452.880	454.705	455.900
7.0	417.320	414.110	421.050	428.825	435.760	438.525	440.620	442.760	445.170	447.325
9.0	398.875	394.435	402.400	413.670	421.905	424.885	427.610	430.605	434.125	437.585
11.0	376.495	370.250	379.470	391.520	399.505	405.145	408.895	412.980	417.570	422.180
13.0	349.880	341.730	347.055	360.970	374.255	382.320	386.975	392.800	398.290	404.620
15.0	331.480	323.185	339.215	353.865	358.220	363.840	369.960	376.850	384.290	391.940
17.0	299.170	299.335	306.735	324.820	330.705	337.265	344.120	352.060	361.115	370.400
19.5	263.000	259.540	270.375	286.030	294.935	302.060	310.295	319.725	330.100	341.185
22.5	221.675	221.420	229.530	244.305	251.620	259.625	268.950	279.260	291.330	304.385
25.5	182.905	184.560	189.945	202.475	211.320	219.470	229.050	240.345	253.085	267.170
29.0	146.985	142.940	151.095	162.535	169.305	177.015	186.320	197.470	210.480	224.835
33.0	110.730	108.450	113.560	124.060	130.135	136.970	145.160	155.240	167.440	180.870
37.5	82.355	82.150	85.750	92.185	96.710	102.100	108.785	117.165	127.475	139.125
42.5	60.980	59.515	62.890	67.375	70.850	74.790	79.695	86.045	93.780	102.955
47.5	46.985	46.000	48.285	51.365	53.645	56.330	59.810	64.335	70.015	76.720
55.0	33.280	32.735	33.865	35.355	36.485	38.100	40.070	42.665	45.980	50.150
65.0	20.955	21.000	21.250	21.775	22.360	22.990	23.870	24.980	26.425	28.230
75.0	11.315	11.210	11.380	11.545	11.715	11.945	12.240	12.595	13.120	13.745
85.0	0.295	0.315	0.315	0.375	0.440	0.545	0.715	0.900	1.155	1.615
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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>
0.0	461.970	461.970	461.970	461.970	461.970	461.970	461.970	461.970	461.970
1.0	462.875	463.380	465.055	465.410	466.335	466.500	466.730	466.440	466.565
3.0	461.600	462.310	463.505	463.755	466.630	465.980	466.165	466.250	466.355
5.0	457.175	458.665	459.900	461.030	462.690	463.360	463.945	465.265	464.220
7.0	449.610	451.810	453.990	455.670	458.620	459.860	460.885	461.390	462.080
9.0	441.105	444.245	446.970	449.865	452.420	454.410	456.400	457.765	459.775
11.0	426.915	431.505	435.885	440.180	443.180	446.195	449.235	451.540	453.530
13.0	410.820	416.880	422.660	428.675	433.015	436.850	441.355	443.260	445.820
15.0	400.175	407.405	414.780	421.070	426.790	431.400	434.500	436.220	437.100
17.0	379.995	389.005	397.785	406.380	413.360	418.155	422.705	425.680	426.705
19.5	352.775	363.630	374.525	385.485	394.330	401.515	406.335	409.775	411.240
22.5	318.050	331.125	344.540	357.675	368.345	377.565	384.145	387.980	389.575
25.5	282.280	296.885	312.140	326.935	339.885	350.760	357.865	363.000	364.800
29.0	240.680	256.565	273.310	289.195	303.485	316.100	324.085	330.290	332.405
33.0	196.590	212.115	229.005	245.960	261.215	272.070	282.905	289.695	292.255
37.5	152.915	167.080	182.550	198.620	213.520	226.575	236.740	243.215	244.975
42.5	113.475	125.590	138.520	152.600	165.970	177.750	186.905	192.375	194.680
47.5	84.535	94.115	104.340	115.490	126.345	136.405	143.990	148.765	150.800
55.0	54.715	60.395	66.975	74.040	81.165	87.975	93.715	97.280	98.745
65.0	30.470	33.110	36.190	39.690	43.295	46.775	49.710	51.700	52.350
75.0	14.565	15.570	16.725	18.085	19.445	20.850	22.025	22.760	23.050
85.0	2.285	3.040	3.665	3.940	4.130	4.315	4.485	4.550	4.570
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	144.03	N.A.	25.20
0-30	265.38	N.A.	46.30
0-40	362.32	N.A.	63.30
0-60	495.43	N.A.	86.50
0-80	562.57	N.A.	98.20
0-90	572.63	N.A.	100.00
10-90	537.97	N.A.	93.90
20-40	218.29	N.A.	38.10
20-50	304.80	N.A.	53.20
40-70	175.74	N.A.	30.70
60-80	67.14	N.A.	11.70
70-80	24.51	N.A.	4.30
80-90	10.06	N.A.	1.80
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	572.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	34.67
10-20	109.37
20-30	121.35
30-40	96.94
40-50	86.51
50-60	46.60
60-70	42.63
70-80	24.51
80-90	10.06
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

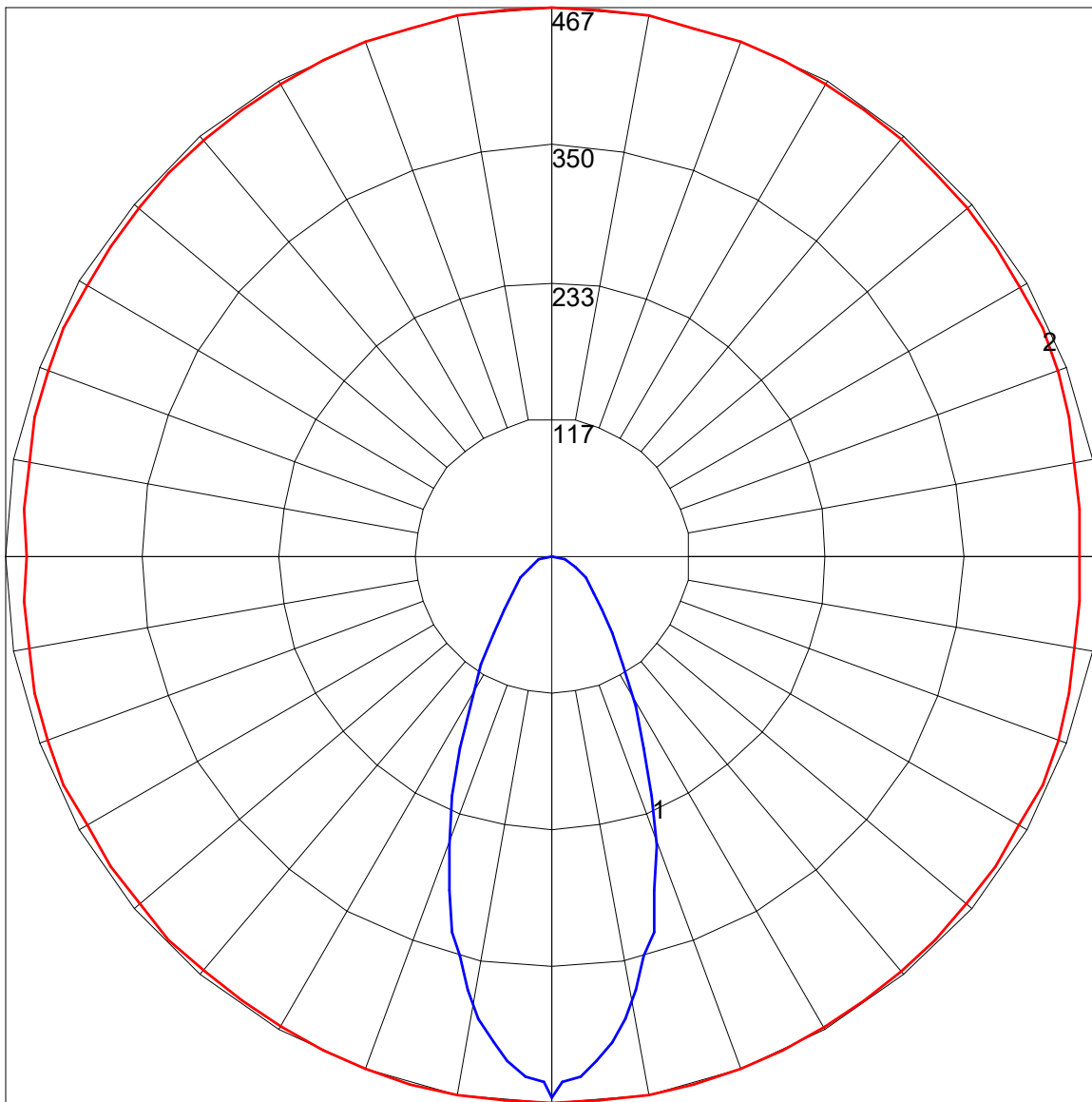
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	66	58	53	76	65	58	52	63	57	52	62	56	52	60	55	51	49
7	73	61	53	48	71	60	53	48	59	52	47	57	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	53	45	41	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36

POLAR GRAPH



Maximum Candela = 466.73 Located At Horizontal Angle = 80, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)