

IES Report

BoxRail® | 107 | 85° Asymmetric | 90 CRI | LO

107-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-A1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	55	56	58	58
Total Lumens, 4' rail length (1219mm)	750	773	789	797
Lumens per foot (305mm)	187	193	197	199
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_A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911511 (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-A1-AL

[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board, 85° white asymmetric lens,

[MORE] low output, black anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	789
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	13.82
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.78
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.04 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	39182	32065	14894
55	32414	25697	11797
65	22705	19288	9519
75	9864	12415	7461
85	137	201	4715

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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	360.445	360.445	360.445	360.445	360.445	360.445	360.445	360.445	360.445	360.445
5	423.480	422.640	422.220	421.050	419.665	417.990	415.770	413.755	410.530	407.300
10	492.885	491.840	490.750	488.315	485.340	481.110	476.120	470.630	463.675	456.295
15	536.305	535.345	534.000	531.070	526.920	522.055	515.770	508.435	499.380	489.240
20	553.325	553.115	551.310	548.460	544.355	538.905	532.410	524.110	514.220	502.905
25	548.375	547.705	545.990	543.305	539.155	533.875	526.920	518.370	507.680	495.985
30	527.420	526.750	525.030	522.100	517.615	511.745	504.330	495.275	483.790	470.880
35	494.395	493.640	491.755	488.485	483.370	476.750	468.325	457.680	445.275	431.235
40	450.050	449.425	447.325	443.680	438.065	430.815	421.130	409.185	395.815	380.645
45	395.735	394.935	393.095	389.490	383.705	375.995	365.975	353.570	339.615	323.855
50	332.865	332.320	330.810	327.625	322.765	314.885	305.330	293.805	280.515	266.560
55	265.555	265.135	264.005	261.825	257.925	251.850	243.805	233.660	222.300	210.525
60	198.245	198.120	197.740	196.570	194.095	190.070	184.370	176.995	168.570	160.020
65	137.055	137.135	137.345	137.260	136.380	134.540	131.435	127.035	121.795	116.430
70	82.400	82.650	83.320	84.160	84.915	85.040	84.455	82.945	80.805	78.210
75	36.465	36.755	37.805	39.270	41.115	43.085	44.635	45.640	46.060	45.895
80	5.535	5.660	6.035	6.830	7.965	9.600	11.735	14.290	16.805	18.860
85	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.250
90	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>	<u>95</u>
0	360.445	360.445	360.445	360.445	360.445	360.445	360.445	360.445	360.445	360.445
5	403.990	399.840	394.560	388.985	383.330	377.335	371.045	364.510	357.760	349.420
10	448.210	438.440	427.545	415.895	403.950	391.080	377.795	363.840	349.840	336.470
15	478.050	464.680	449.465	432.995	415.725	397.115	377.710	357.260	336.845	316.520
20	489.995	474.570	456.885	437.100	416.145	392.885	368.365	342.755	317.190	291.205
25	481.865	465.310	446.155	424.570	401.520	374.985	347.495	318.450	289.445	262.200
30	456.130	438.860	419.080	396.825	372.890	345.565	316.980	286.555	256.460	228.085
35	415.640	397.830	377.920	356.085	332.615	306.085	278.295	249.125	220.165	192.795
40	364.385	346.615	327.290	306.755	285.255	261.070	236.215	210.610	183.825	159.770
45	307.970	290.830	273.435	254.825	236.135	215.510	193.380	169.575	150.425	130.430
50	251.055	236.635	221.590	206.165	190.660	173.935	156.750	139.105	121.630	104.570
55	198.285	186.635	174.815	162.705	151.260	138.480	124.185	110.355	96.650	83.070
60	151.680	143.170	134.410	125.610	116.725	107.085	96.610	86.170	75.440	65.090
65	110.775	105.030	99.415	93.630	87.385	80.430	72.885	65.215	57.460	49.710
70	75.400	72.300	69.070	65.510	61.445	56.960	52.095	46.860	41.575	36.550
75	45.350	44.345	43.045	41.410	39.315	36.755	33.950	30.805	27.580	24.605
80	20.330	21.165	21.415	21.250	20.705	19.700	18.485	17.060	15.465	14.040
85	0.795	2.095	4.110	5.615	6.370	6.580	6.495	6.245	5.870	5.615
90	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>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	360.445	360.445	360.445	360.445	360.445	360.445	360.445	360.445	360.445	360.445
5	343.135	335.800	329.515	323.770	317.775	312.330	307.340	302.270	330.225	327.375
10	323.435	310.275	297.410	285.630	273.810	267.900	258.805	249.295	241.705	234.415
15	297.450	278.420	260.440	243.970	227.835	213.795	201.135	215.050	204.910	196.735
20	267.610	244.430	223.015	203.945	185.795	189.860	175.780	162.785	152.980	144.765
25	236.135	210.860	188.060	168.320	149.960	135.125	122.595	113.750	104.990	97.780
30	201.470	176.410	154.320	135.670	118.945	105.870	96.065	86.885	79.845	74.350
35	167.860	144.850	124.815	108.635	94.430	83.740	75.610	68.400	63.080	59.055

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CANDELA TABULATION - (Cont.)

40	137.725	117.730	100.840	87.430	76.070	67.560	60.940	55.955	52.140	49.205
45	111.945	95.350	81.645	70.955	61.945	55.660	50.755	46.900	44.175	42.165
50	89.275	76.240	65.800	57.505	50.840	46.060	42.585	40.360	38.390	37.010
55	71.460	61.235	53.310	47.065	42.205	39.060	36.505	34.660	33.405	32.565
60	56.290	48.620	42.585	38.265	35.040	32.610	30.890	30.805	29.925	29.340
65	43.380	38.225	33.905	30.765	28.375	26.700	25.650	24.940	24.475	24.225
70	32.275	28.585	25.775	23.720	22.215	21.210	20.580	20.160	19.950	19.825
75	22.045	19.910	18.275	17.140	16.305	15.845	15.590	15.425	15.380	15.425
80	12.910	12.030	11.360	10.940	10.730	10.605	10.645	10.690	10.855	11.025
85	5.535	5.535	5.615	5.700	5.870	6.120	6.285	6.370	6.330	6.285
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	360.445	360.445	360.445	360.445	360.445	360.445	360.445
5	325.825	325.405	326.035	327.710	328.505	327.040	363.965
10	228.590	251.265	249.210	248.330	247.660	245.395	278.045
15	189.650	184.830	181.145	178.840	177.120	174.730	199.755
20	138.310	133.825	129.760	127.035	125.190	123.010	139.985
25	91.995	87.595	94.845	92.415	90.740	89.105	99.920
30	69.910	72.760	71.585	69.740	68.400	67.310	73.935
35	55.825	58.845	56.835	55.535	54.735	53.940	58.005
40	47.065	45.475	47.445	46.605	46.145	45.685	48.285
45	41.030	42.205	41.495	41.030	40.825	40.615	42.415
50	36.085	36.800	36.675	36.505	36.420	36.340	37.555
55	32.020	32.860	32.690	32.610	32.525	32.480	33.360
60	29.005	28.835	28.795	28.750	28.750	28.710	29.420
65	24.060	24.770	24.770	24.855	24.940	24.855	25.400
70	19.825	20.455	20.535	20.620	20.705	20.705	21.210
75	15.510	16.055	16.180	16.305	16.390	16.430	16.765
80	11.190	11.650	11.820	11.945	12.115	12.195	12.490
85	6.285	6.330	6.540	6.580	6.665	6.705	6.875
90	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	131.99	N.A.	16.70
0-30	272.34	N.A.	34.50
0-40	427.86	N.A.	54.20
0-60	681.53	N.A.	86.40
0-80	783.24	N.A.	99.20
0-90	789.19	N.A.	100.00
10-90	754.70	N.A.	95.60
20-40	295.87	N.A.	37.50
20-50	438.91	N.A.	55.60
40-70	323.92	N.A.	41.00
60-80	101.71	N.A.	12.90
70-80	31.46	N.A.	4.00
80-90	5.94	N.A.	0.80
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	789.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	34.49
10-20	97.51
20-30	140.35
30-40	155.52
40-50	143.04
50-60	110.63
60-70	70.25
70-80	31.46
80-90	5.94
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

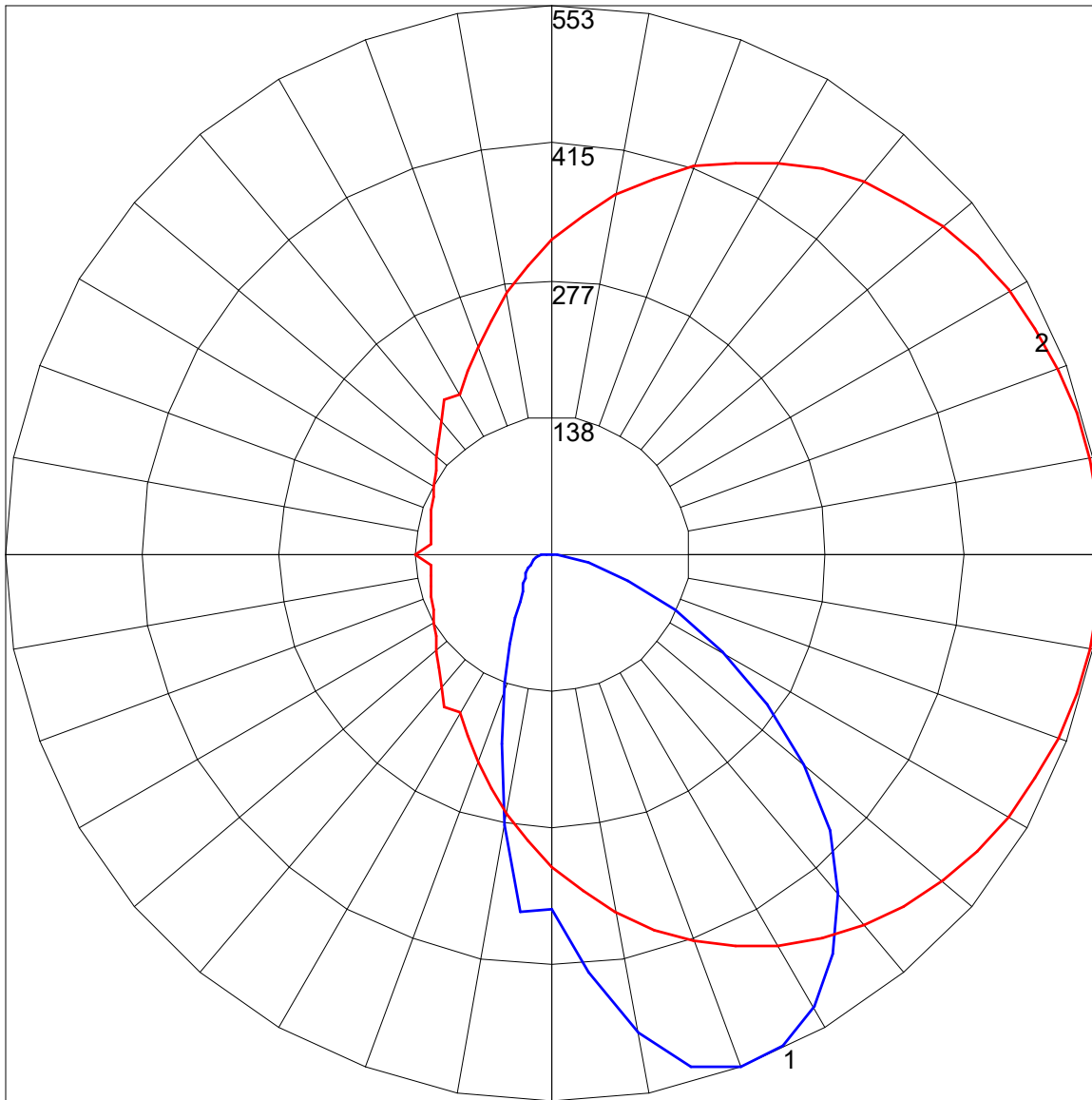
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	83	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	79	68	59	53	77	66	59	53	64	58	52	63	56	52	61	55	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

POLAR GRAPH



Maximum Candela = 553.325 Located At Horizontal Angle = 0, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)