

IES Report

BoxRail® | 207 | 85° Asymmetric, down | 90 CRI | LO

207-BX-XX-4-48-XX-XX-XX-X-X-Z-LO-359-A1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	40	41	42	43
Total Lumens, 4' rail length (1219mm)	569	587	599	605
Lumens per foot (305mm)	142	147	150	151
Input Power (W), 4' rail length (1219mm)	14.4	14.4	14.4	14.4
Watts per foot (305mm)	3.6	3.6	3.6	3.6
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_207_BX_LO_359_A1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010910 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 207-BX-48-Z-LO-359-A1-BL

[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,

[MORE] 85° asymmetric lens down, 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	599
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	42
Total Luminaire Watts	14.38
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.78
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.09 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7075	6878	5427
55	4605	4386	3745
65	2412	2454	2613
75	595	1050	1827
85	100	116	900

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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	293.805	293.805	293.805	293.805	293.805	293.805	293.805	293.805	293.805	293.805
5	358.515	358.250	357.990	355.525	353.580	351.180	348.345	345.105	341.475	337.490
10	411.830	411.275	409.090	406.520	403.180	399.090	394.280	387.975	381.155	373.850
15	447.535	446.560	443.940	440.955	436.915	430.910	424.355	417.315	409.860	401.130
20	463.715	462.315	459.910	456.800	451.505	445.900	439.575	431.425	423.465	412.090
25	462.290	460.620	459.015	454.715	450.160	444.190	437.230	430.695	418.590	406.420
30	443.345	441.485	439.605	435.820	431.485	426.310	420.555	411.190	400.045	387.745
35	410.150	408.580	406.270	403.525	398.740	393.745	388.165	377.645	367.755	355.200
40	366.730	365.535	363.295	360.120	356.075	350.585	342.690	334.165	323.555	311.410
45	316.350	315.520	313.430	310.495	306.215	300.465	292.625	284.880	273.315	262.160
50	260.945	260.005	258.410	255.875	252.305	246.960	240.200	231.405	221.395	209.530
55	204.865	204.155	203.510	201.665	198.765	194.455	188.310	180.315	171.555	161.595
60	152.560	152.150	151.650	150.655	148.755	145.605	140.695	135.865	127.895	119.985
65	103.525	103.690	104.330	104.205	103.105	101.310	98.875	95.015	90.180	84.545
70	60.855	61.220	62.425	63.020	63.740	63.445	62.750	61.670	58.855	55.950
75	23.805	25.015	27.150	28.205	29.860	31.365	32.495	34.255	33.835	32.575
80	3.605	6.085	5.210	6.300	6.940	7.655	8.585	10.565	11.570	13.485
85	3.605	3.600	3.530	3.415	3.295	3.115	2.870	2.675	2.705	3.090
90	4.055	4.065	3.980	3.900	3.775	3.605	3.435	3.230	2.975	2.685

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	293.805	293.805	293.805	293.805	293.805	293.805	293.805	293.805	293.805	293.805
5	333.180	328.575	323.715	318.630	313.360	307.945	302.425	296.850	291.245	285.295
10	366.115	358.010	349.790	339.165	328.520	317.680	306.725	295.700	284.750	273.145
15	390.455	377.535	364.400	351.130	337.790	321.860	305.750	289.655	273.855	257.200
20	399.025	385.260	371.255	352.900	334.790	317.005	296.695	276.570	257.175	236.685
25	395.145	379.320	361.160	344.265	323.070	301.980	280.450	257.255	235.255	211.975
30	373.375	357.495	340.385	320.605	302.145	278.720	257.020	231.530	207.970	184.470
35	340.745	326.020	307.140	288.445	268.170	246.620	224.225	199.700	175.400	154.220
40	298.055	281.855	265.120	247.895	228.135	207.915	182.680	162.535	147.320	126.065
45	247.830	233.025	216.500	199.760	184.300	168.690	150.530	133.395	116.765	98.950
50	195.750	177.970	164.940	155.250	144.495	130.420	116.260	102.660	88.810	75.075
55	150.010	139.795	130.405	120.495	109.180	97.820	86.635	75.670	65.970	56.210
60	112.330	103.395	95.460	87.265	79.035	71.135	63.420	55.125	48.115	42.990
65	78.930	72.415	66.935	61.295	55.450	49.910	45.010	41.535	34.450	29.745
70	51.995	48.350	45.600	42.115	37.490	34.000	30.585	27.160	24.015	20.925
75	31.295	29.615	28.275	25.935	23.120	21.100	19.345	17.050	15.255	13.635
80	14.075	14.050	13.540	12.955	12.030	10.880	10.185	9.205	8.175	7.450
85	3.470	3.420	3.195	3.640	3.985	3.635	3.570	3.320	2.935	2.860
90	2.430	2.140	1.845	1.595	1.340	1.090	0.920	0.715	0.840	0.630

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	293.805	293.805	293.805	293.805	293.805	293.805	293.805	293.805	293.805	293.805
5	279.400	273.625	267.985	262.540	257.325	252.375	247.730	243.425	239.495	235.965
10	261.755	250.590	239.740	229.280	219.285	210.760	202.800	195.445	188.745	182.750
15	240.980	225.090	210.695	196.535	183.845	171.780	160.410	150.925	142.955	135.510
20	216.900	198.455	180.655	164.305	148.595	136.020	124.375	113.185	103.110	96.495
25	189.710	169.405	150.555	132.695	118.210	104.095	92.295	83.170	74.570	67.160
30	162.120	141.720	121.775	105.900	90.425	78.890	68.455	59.635	53.620	47.670
35	133.960	114.525	97.125	81.785	69.450	58.720	50.515	43.630	38.355	34.670

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CANDELA TABULATION - (Cont.)

40	106.965	89.735	75.405	62.365	52.390	44.180	37.300	32.650	28.565	25.965
45	83.350	69.390	57.475	47.830	39.565	33.435	28.755	24.745	22.445	20.215
50	63.245	52.890	43.645	36.405	30.595	25.905	22.405	20.065	18.035	16.675
55	47.490	39.955	33.480	27.885	23.700	20.565	18.170	16.315	14.920	13.825
60	35.880	30.060	25.495	21.700	18.705	16.425	14.775	13.365	12.195	11.285
65	26.055	22.345	19.220	16.665	14.655	13.060	11.675	10.605	9.845	9.230
70	18.590	16.135	14.065	12.405	11.105	9.920	8.890	8.025	7.355	6.870
75	12.020	10.690	9.495	8.480	7.570	6.565	5.755	5.185	4.845	4.570
80	6.760	6.155	5.185	4.425	3.830	3.405	3.060	2.855	2.850	2.840
85	2.675	1.955	1.635	1.615	1.435	1.380	1.380	1.405	1.390	1.365
90	0.585	0.670	0.670	0.630	0.715	0.715	0.715	0.755	0.795	0.840

Vert. Angles **Horizontal Angles**

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	293.805	293.805	293.805	293.805	293.805	293.805	293.805
5	232.870	230.230	228.065	226.395	225.235	224.595	224.480
10	177.535	172.760	168.845	165.825	163.730	162.570	162.365
15	128.965	123.390	118.835	115.075	112.385	110.875	110.565
20	90.630	85.310	80.875	77.475	74.885	73.360	73.010
25	62.420	58.320	54.825	51.975	49.950	48.625	48.285
30	43.235	40.425	37.965	35.920	34.405	33.450	33.195
35	31.055	29.065	27.470	26.125	25.080	24.460	24.310
40	23.740	21.985	21.000	20.100	19.420	19.020	18.860
45	18.895	17.580	16.900	16.335	15.835	15.570	15.510
50	15.590	14.750	14.130	13.730	13.400	13.180	13.160
55	12.870	12.385	12.005	11.740	11.435	11.275	11.235
60	10.710	10.240	9.865	9.655	9.670	9.620	9.640
65	8.725	8.280	7.980	7.705	7.490	7.680	7.710
70	6.655	6.505	6.285	6.090	5.660	5.495	5.785
75	4.435	4.415	4.430	4.440	4.395	3.740	3.940
80	2.805	2.825	2.825	2.845	2.895	2.970	2.600
85	1.310	1.315	1.320	1.285	1.285	1.400	1.175
90	0.840	0.755	0.670	0.670	0.670	0.630	0.580

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	105.22	N.A.	17.60
0-30	217.67	N.A.	36.30
0-40	341.20	N.A.	56.90
0-60	529.91	N.A.	88.40
0-80	595.66	N.A.	99.40
0-90	599.34	N.A.	100.00
10-90	571.75	N.A.	95.40
20-40	235.99	N.A.	39.40
20-50	345.29	N.A.	57.60
40-70	235.59	N.A.	39.30
60-80	65.74	N.A.	11.00
70-80	18.87	N.A.	3.10
80-90	3.69	N.A.	0.60
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	599.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	27.59
10-20	77.62
20-30	112.45
30-40	123.54
40-50	109.31
50-60	79.40
60-70	46.88
70-80	18.87
80-90	3.69
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

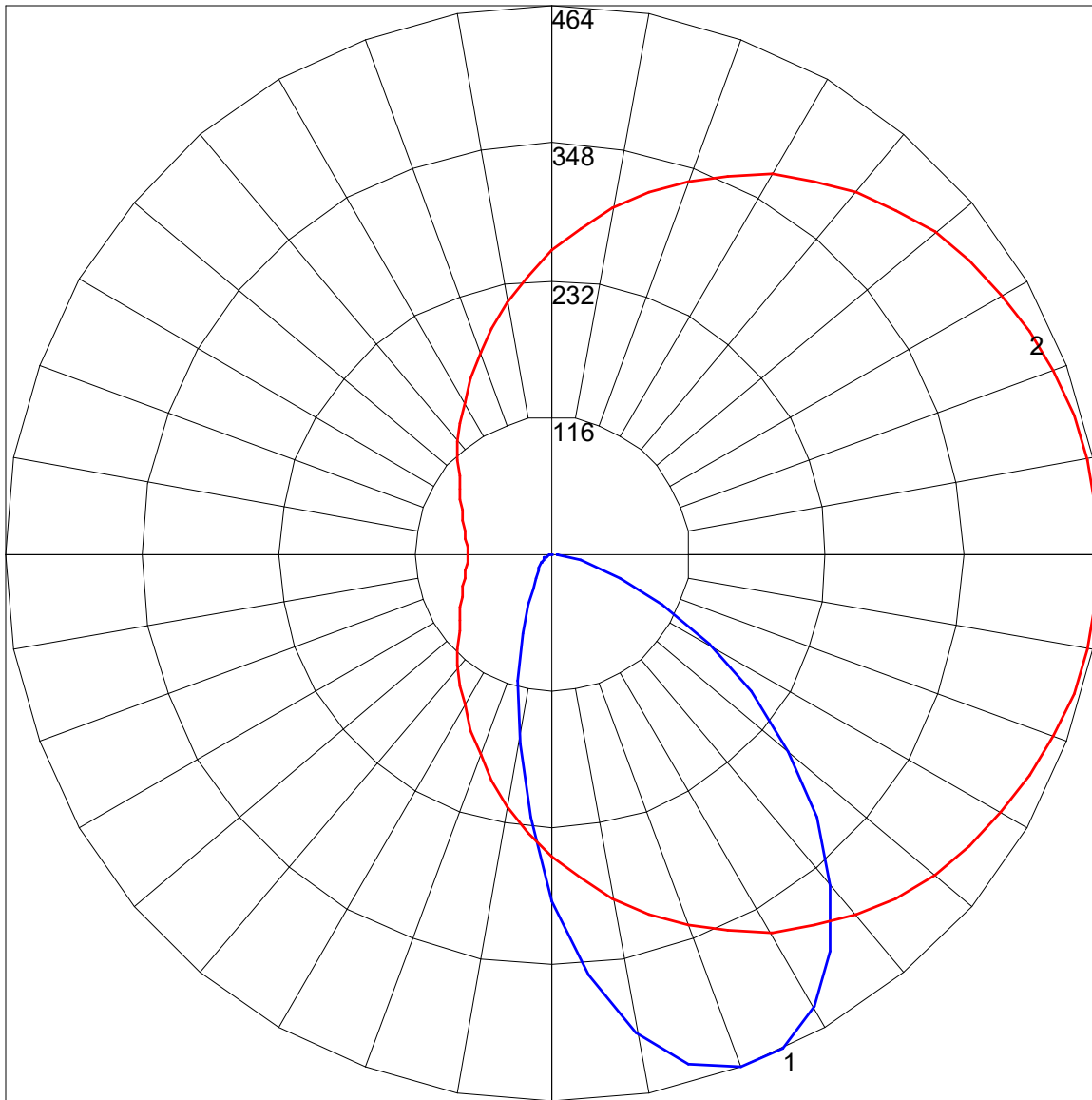
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	85	75	68	62	73	66	61	70	65	60	68	63	60	58
5	81	69	61	55	79	68	60	54	66	59	54	64	58	53	62	57	53	51
6	75	63	54	49	73	62	54	48	60	53	48	58	52	48	57	51	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33
10	57	45	38	33	56	44	37	33	44	37	32	43	37	32	42	36	32	30

POLAR GRAPH



Maximum Candela = 463.715 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.)