

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	46	47	48	48
Total Lumens, 4' rail length (1219mm)	1139	1175	1199	1211
Lumens per foot (305mm)	285	294	300	303
Input Power (W), 4' rail length (1219mm)	25.3	25.3	25.3	25.3
Watts per foot (305mm)	6.4	6.4	6.4	6.4
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_SO_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-SO-359-A1-BL

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

[MORE] 85° asymmetric lens down, standard 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	1199
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	47
Total Luminaire Watts	25.26
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	14150	13757	10854
55	9209	8771	7490
65	4825	4907	5227
75	1189	2100	3655
85	201	232	1800

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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	587.61	587.61	587.61	587.61	587.61	587.61	587.61	587.61	587.61	587.61
5	717.03	716.50	715.98	711.05	707.16	702.36	696.69	690.21	682.95	674.98
10	823.66	822.55	818.18	813.04	806.36	798.18	788.56	775.95	762.31	747.70
15	895.07	893.12	887.88	881.91	873.83	861.82	848.71	834.63	819.72	802.26
20	927.43	924.63	919.82	913.60	903.01	891.80	879.15	862.85	846.93	824.18
25	924.58	921.24	918.03	909.43	900.32	888.38	874.46	861.39	837.18	812.84
30	886.69	882.97	879.21	871.64	862.97	852.62	841.11	822.38	800.09	775.49
35	820.30	817.16	812.54	807.05	797.48	787.49	776.33	755.29	735.51	710.40
40	733.46	731.07	726.59	720.24	712.15	701.17	685.38	668.33	647.11	622.82
45	632.70	631.04	626.86	620.99	612.43	600.93	585.25	569.76	546.63	524.32
50	521.89	520.01	516.82	511.75	504.61	493.92	480.40	462.81	442.79	419.06
55	409.73	408.31	407.02	403.33	397.53	388.91	376.62	360.63	343.11	323.19
60	305.12	304.30	303.30	301.31	297.51	291.21	281.39	271.73	255.79	239.97
65	207.05	207.38	208.66	208.41	206.21	202.62	197.75	190.03	180.36	169.09
70	121.71	122.44	124.85	126.04	127.48	126.89	125.50	123.34	117.71	111.90
75	47.61	50.03	54.30	56.41	59.72	62.73	64.99	68.51	67.67	65.15
80	7.21	12.17	10.42	12.60	13.88	15.31	17.17	21.13	23.14	26.97
85	7.21	7.20	7.06	6.83	6.59	6.23	5.74	5.35	5.41	6.18
90	8.11	8.13	7.96	7.80	7.55	7.21	6.87	6.46	5.95	5.37

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	587.61	587.61	587.61	587.61	587.61	587.61	587.61	587.61	587.61	587.61
5	666.36	657.15	647.43	637.26	626.72	615.89	604.85	593.70	582.49	570.59
10	732.23	716.02	699.58	678.33	657.04	635.36	613.45	591.40	569.50	546.29
15	780.91	755.07	728.80	702.26	675.58	643.72	611.50	579.31	547.71	514.40
20	798.05	770.52	742.51	705.80	669.58	634.01	593.39	553.14	514.35	473.37
25	790.29	758.64	722.32	688.53	646.14	603.96	560.90	514.51	470.51	423.95
30	746.75	714.99	680.77	641.21	604.29	557.44	514.04	463.06	415.94	368.94
35	681.49	652.04	614.28	576.89	536.34	493.24	448.45	399.40	350.80	308.44
40	596.11	563.71	530.24	495.79	456.27	415.83	365.36	325.07	294.64	252.13
45	495.66	466.05	433.00	399.52	368.60	337.38	301.06	266.79	233.53	197.90
50	391.50	355.94	329.88	310.50	288.99	260.84	232.52	205.32	177.62	150.15
55	300.02	279.59	260.81	240.99	218.36	195.64	173.27	151.34	131.94	112.42
60	224.66	206.79	190.92	174.53	158.07	142.27	126.84	110.25	96.23	85.98
65	157.86	144.83	133.87	122.59	110.90	99.82	90.02	83.07	68.90	59.49
70	103.99	96.70	91.20	84.23	74.98	68.00	61.17	54.32	48.03	41.85
75	62.59	59.23	56.55	51.87	46.24	42.20	38.69	34.10	30.51	27.27
80	28.15	28.10	27.08	25.91	24.06	21.76	20.37	18.41	16.35	14.90
85	6.94	6.84	6.39	7.28	7.97	7.27	7.14	6.64	5.87	5.72
90	4.86	4.28	3.69	3.19	2.68	2.18	1.84	1.43	1.68	1.26

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	587.61	587.61	587.61	587.61	587.61	587.61	587.61	587.61	587.61	587.61
5	558.80	547.25	535.97	525.08	514.65	504.75	495.46	486.85	478.99	471.93
10	523.51	501.18	479.48	458.56	438.57	421.52	405.60	390.89	377.49	365.50
15	481.96	450.18	421.39	393.07	367.69	343.56	320.82	301.85	285.91	271.02
20	433.80	396.91	361.31	328.61	297.19	272.04	248.75	226.37	206.22	192.99
25	379.42	338.81	301.11	265.39	236.42	208.19	184.59	166.34	149.14	134.32
30	324.24	283.44	243.55	211.80	180.85	157.78	136.91	119.27	107.24	95.34
35	267.92	229.05	194.25	163.57	138.90	117.44	101.03	87.26	76.71	69.34

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CANDELA TABULATION - (Cont.)

40	213.93	179.47	150.81	124.73	104.78	88.36	74.60	65.30	57.13	51.93
45	166.70	138.78	114.95	95.66	79.13	66.87	57.51	49.49	44.89	40.43
50	126.49	105.78	87.29	72.81	61.19	51.81	44.81	40.13	36.07	33.35
55	94.98	79.91	66.96	55.77	47.40	41.13	36.34	32.63	29.84	27.65
60	71.76	60.12	50.99	43.40	37.41	32.85	29.55	26.73	24.39	22.57
65	52.11	44.69	38.44	33.33	29.31	26.12	23.35	21.21	19.69	18.46
70	37.18	32.27	28.13	24.81	22.21	19.84	17.78	16.05	14.71	13.74
75	24.04	21.38	18.99	16.96	15.14	13.13	11.51	10.37	9.69	9.14
80	13.52	12.31	10.37	8.85	7.66	6.81	6.12	5.71	5.70	5.68
85	5.35	3.91	3.27	3.23	2.87	2.76	2.76	2.81	2.78	2.73
90	1.17	1.34	1.34	1.26	1.43	1.43	1.43	1.51	1.59	1.68

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	587.61	587.61	587.61	587.61	587.61	587.61	587.61
5	465.74	460.46	456.13	452.79	450.47	449.19	448.96
10	355.07	345.52	337.69	331.65	327.46	325.14	324.73
15	257.93	246.78	237.67	230.15	224.77	221.75	221.13
20	181.26	170.62	161.75	154.95	149.77	146.72	146.02
25	124.84	116.64	109.65	103.95	99.90	97.25	96.57
30	86.47	80.85	75.93	71.84	68.81	66.90	66.39
35	62.11	58.13	54.94	52.25	50.16	48.92	48.62
40	47.48	43.97	42.00	40.20	38.84	38.04	37.72
45	37.79	35.16	33.80	32.67	31.67	31.14	31.02
50	31.18	29.50	28.26	27.46	26.80	26.36	26.32
55	25.74	24.77	24.01	23.48	22.87	22.55	22.47
60	21.42	20.48	19.73	19.31	19.34	19.24	19.28
65	17.45	16.56	15.96	15.41	14.98	15.36	15.42
70	13.31	13.01	12.57	12.18	11.32	10.99	11.57
75	8.87	8.83	8.86	8.88	8.79	7.48	7.88
80	5.61	5.65	5.65	5.69	5.79	5.94	5.20
85	2.62	2.63	2.64	2.57	2.57	2.80	2.35
90	1.68	1.51	1.34	1.34	1.34	1.26	1.16

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	210.43	N.A.	17.60
0-30	435.33	N.A.	36.30
0-40	682.41	N.A.	56.90
0-60	1059.83	N.A.	88.40
0-80	1191.31	N.A.	99.40
0-90	1198.68	N.A.	100.00
10-90	1143.5	N.A.	95.40
20-40	471.97	N.A.	39.40
20-50	690.59	N.A.	57.60
40-70	471.18	N.A.	39.30
60-80	131.49	N.A.	11.00
70-80	37.73	N.A.	3.10
80-90	7.37	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	1198.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.19
10-20	155.25
20-30	224.90
30-40	247.08
40-50	218.62
50-60	158.81
60-70	93.75
70-80	37.73
80-90	7.37
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

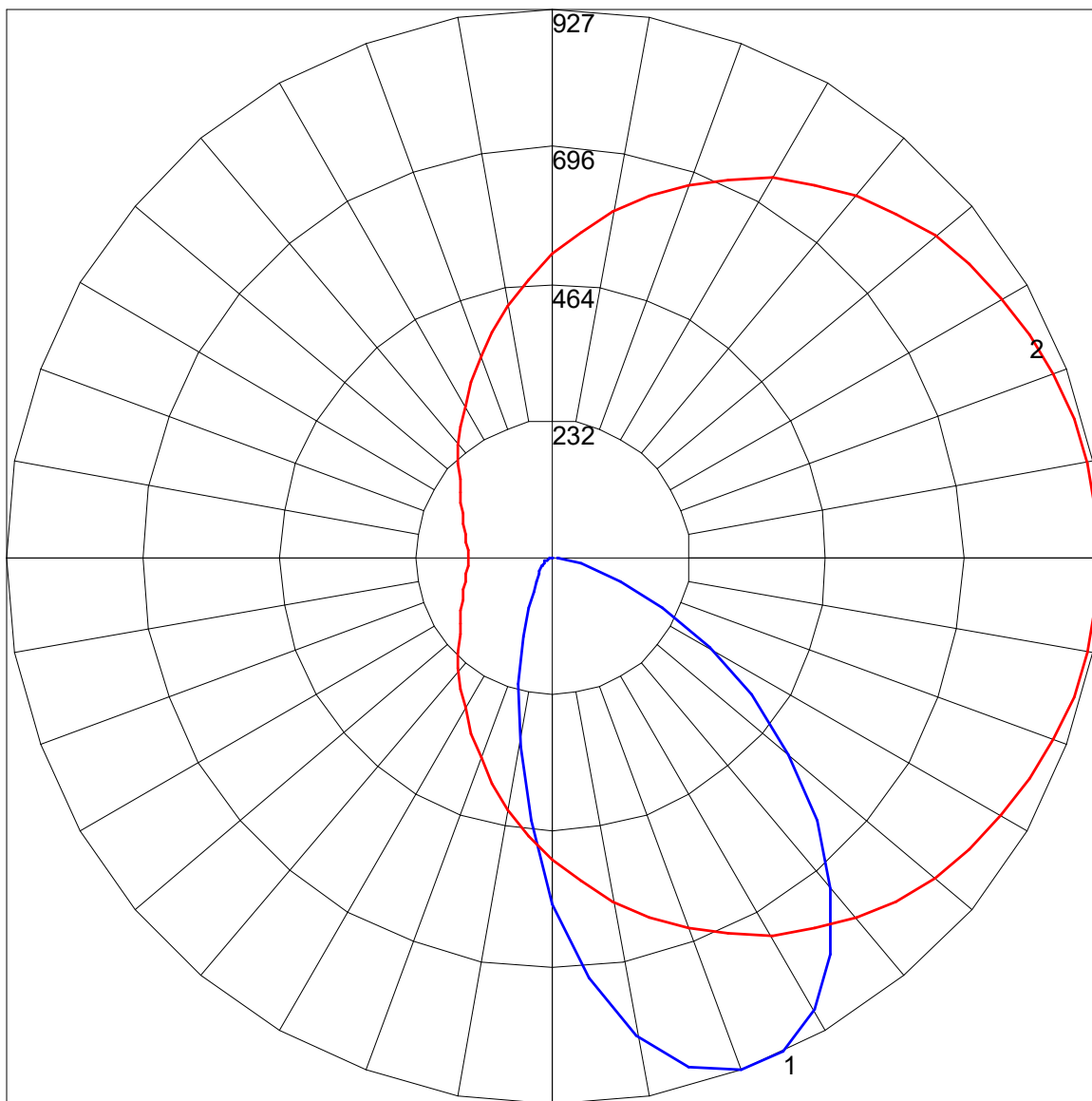
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	97	95	96	94	92	93	91	89	87
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	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	72	66	61	70	65	60	68	63	60	58
5	80	69	61	55	78	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	48	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33
10	57	45	38	33	56	44	37	32	43	37	32	43	37	32	42	36	32	30

POLAR GRAPH



Maximum Candela = 927.43 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.)