

## IES Report

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

207-BX-XX-4-48-XX-XX-XX-X-X-Z-SO-359-A1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	62	64	66	66
Total Lumens, 4' rail length (1219mm)	1565	1614	1647	1663
Lumens per foot (305mm)	391	404	412	416
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.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010904 (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

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

[MORE] 85° asymmetric lens down, standard 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	1647
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	25.26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.92
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.36
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	18541	19022	15199
55	12182	12919	12375
65	6408	7603	9861
75	1549	3288	7546
85	223	263	3680

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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>
<b>0</b>	659	659	659	659	659	659	659	659	659	659
<b>5</b>	827	826	826	819	814	808	801	792	783	772
<b>10</b>	977	976	970	963	954	943	929	912	894	874
<b>15</b>	1096	1094	1086	1077	1064	1047	1028	1007	984	958
<b>20</b>	1161	1158	1151	1141	1126	1109	1090	1067	1044	1010
<b>25</b>	1175	1171	1166	1155	1142	1126	1107	1089	1054	1018
<b>30</b>	1138	1134	1129	1120	1109	1096	1082	1056	1026	994
<b>35</b>	1063	1059	1054	1048	1037	1025	1011	986	964	933
<b>40</b>	956	953	949	943	935	924	907	889	868	839
<b>45</b>	829	827	823	818	810	801	786	773	748	725
<b>50</b>	686	685	682	679	674	666	655	639	620	597
<b>55</b>	542	540	541	539	535	530	522	507	493	476
<b>60</b>	402	402	403	404	403	399	394	386	374	362
<b>65</b>	275	277	279	280	281	281	279	276	270	262
<b>70</b>	160	162	166	169	173	176	178	180	178	175
<b>75</b>	62	66	72	75	80	88	93	97	100	102
<b>80</b>	10	16	14	16	18	21	24	29	33	39
<b>85</b>	8	8	8	8	8	7	7	6	6	7
<b>90</b>	9	9	9	9	8	8	8	7	7	6

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>
<b>0</b>	659	659	659	659	659	659	659	659	659	659
<b>5</b>	761	749	737	723	710	696	681	667	652	639
<b>10</b>	852	830	807	780	752	724	696	667	638	611
<b>15</b>	928	893	857	820	783	742	700	659	617	579
<b>20</b>	972	931	889	839	788	739	686	634	583	534
<b>25</b>	983	939	888	839	781	724	666	606	547	491
<b>30</b>	956	914	868	810	755	691	630	564	500	442
<b>35</b>	896	858	808	756	697	637	576	511	448	389
<b>40</b>	807	766	723	675	619	564	504	446	389	335
<b>45</b>	692	658	622	577	531	482	429	378	327	281
<b>50</b>	574	544	511	477	439	396	347	301	270	231
<b>55</b>	455	430	402	373	341	313	283	251	218	188
<b>60</b>	345	318	298	282	265	245	221	195	172	148
<b>65</b>	252	241	229	215	200	183	167	147	130	114
<b>70</b>	170	164	158	150	140	130	119	106	95	87
<b>75</b>	102	101	102	99	93	88	80	69	63	57
<b>80</b>	43	46	50	48	46	44	41	37	34	32
<b>85</b>	9	9	9	11	12	13	13	13	12	12
<b>90</b>	5	5	4	3	3	3	2	2	2	2

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>
<b>0</b>	659	659	659	659	659	659	659	659	659	659
<b>5</b>	625	611	598	585	573	562	551	541	532	524
<b>10</b>	585	559	533	509	486	467	450	434	419	406
<b>15</b>	541	503	470	439	411	384	359	340	325	312
<b>20</b>	487	444	405	370	335	312	291	270	252	240
<b>25</b>	437	390	348	309	280	253	232	216	201	189
<b>30</b>	385	339	295	262	231	209	190	174	164	155
<b>35</b>	335	290	251	218	193	173	158	146	137	131

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**CANDELA TABULATION - (Cont.)**

<b>40</b>	286	243	211	183	162	146	134	126	119	114
<b>45</b>	240	203	176	154	136	124	116	109	105	101
<b>50</b>	198	170	146	129	117	107	100	96	92	90
<b>55</b>	161	139	122	108	98	92	87	84	81	79
<b>60</b>	129	113	100	90	82	77	74	71	68	67
<b>65</b>	100	89	80	72	67	63	60	58	57	56
<b>70</b>	75	67	60	55	52	50	48	46	45	44
<b>75</b>	51	45	41	39	38	35	33	31	29	27
<b>80</b>	28	25	25	23	21	19	17	16	16	17
<b>85</b>	11	9	9	9	8	7	7	7	7	8
<b>90</b>	1	2	2	2	2	2	2	2	2	2

**Vert. Horizontal Angles**

	<u><b>150</b></u>	<u><b>155</b></u>	<u><b>160</b></u>	<u><b>165</b></u>	<u><b>170</b></u>	<u><b>175</b></u>	<u><b>180</b></u>
<b>0</b>	659	659	659	659	659	659	659
<b>5</b>	516	510	505	501	499	497	497
<b>10</b>	395	385	376	370	365	363	362
<b>15</b>	300	289	281	274	269	266	266
<b>20</b>	230	221	214	208	203	201	200
<b>25</b>	181	175	169	165	161	159	159
<b>30</b>	148	144	140	137	135	134	133
<b>35</b>	126	123	121	119	117	117	117
<b>40</b>	111	108	107	106	106	105	105
<b>45</b>	99	97	97	97	97	97	97
<b>50</b>	89	88	88	88	89	89	89
<b>55</b>	78	78	79	80	81	81	81
<b>60</b>	66	66	67	68	71	73	73
<b>65</b>	55	55	55	56	57	62	63
<b>70</b>	44	44	44	43	41	44	48
<b>75</b>	27	27	27	29	29	26	31
<b>80</b>	17	18	19	20	21	20	21
<b>85</b>	8	9	9	10	10	10	11
<b>90</b>	2	2	2	2	2	2	1

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	245.74	N.A.	14.90
0-30	526.86	N.A.	32.00
0-40	856.33	N.A.	52.00
0-60	1412.24	N.A.	85.70
0-80	1633.67	N.A.	99.20
0-90	1646.96	N.A.	100.00
10-90	1584.33	N.A.	96.20
20-40	610.60	N.A.	37.10
20-50	922.91	N.A.	56.00
40-70	710.24	N.A.	43.10
60-80	221.43	N.A.	13.40
70-80	67.09	N.A.	4.10
80-90	13.29	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	1646.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	62.63
10-20	183.11
20-30	281.12
30-40	329.47
40-50	312.32
50-60	243.59
60-70	154.33
70-80	67.09
80-90	13.29
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

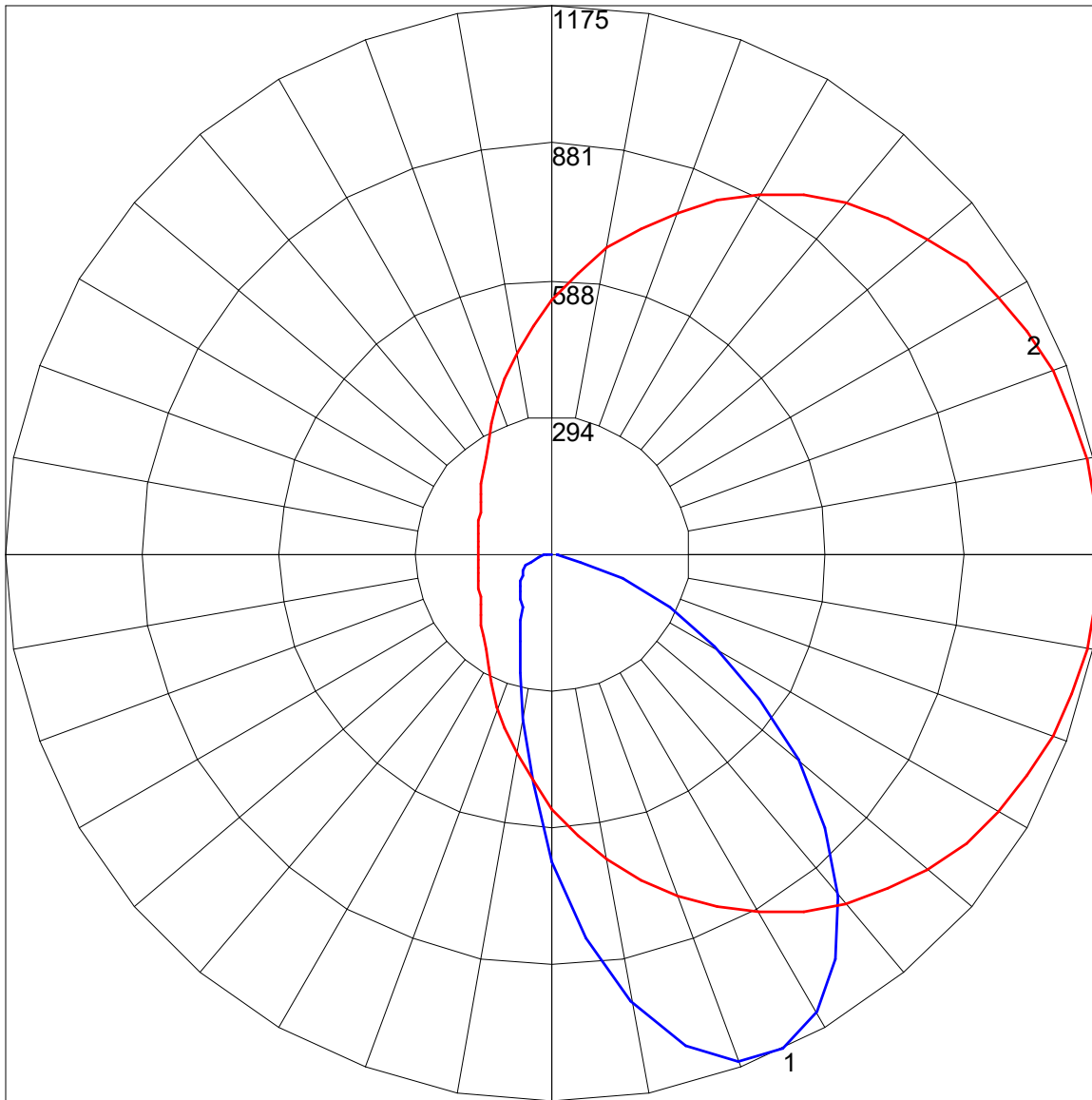
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	107	104	100	97	99	97	94	95	93	91	92	90	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	75	69	90	81	74	69	78	72	68	76	71	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50	48
6	73	60	52	46	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	38
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	45	38	33	44	37	33	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	34	29	28

POLAR GRAPH



Maximum Candela = 1175 Located At Horizontal Angle = 0, Vertical Angle = 25  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)