

## IES Report

# BoxRail® | 207 | White Baffle, down | 90 CRI | SO

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	68	70	71	72
Total Lumens, 4' rail length (1219mm)	1694	1747	1783	1801
Lumens per foot (305mm)	423	437	446	450
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\_WB.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L022010909 (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-WB  
[LUMINAIRE] BoxRail LED, 48", 3500K, 90 CRI, zipper board,  
[MORE] white baffle w/clear lens down, standard output  
[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1783
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	25.26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	0.78
Spacing Criterion (Diagonal)	0.98
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	3936	8265	11806
55	3079	4749	9593
65	2237	2670	7586
75	674	1031	5031
85	278	300	1840

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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>	1357	1357	1357	1357	1357	1357	1357	1357	1357	1357
<b>5</b>	1348	1343	1338	1333	1329	1324	1320	1316	1313	1310
<b>10</b>	1332	1322	1312	1303	1294	1286	1278	1261	1245	1231
<b>15</b>	1307	1293	1279	1266	1251	1223	1197	1173	1150	1129
<b>20</b>	1267	1248	1231	1210	1174	1140	1107	1075	1047	1018
<b>25</b>	1216	1194	1173	1132	1089	1047	1005	967	925	886
<b>30</b>	1159	1133	1101	1048	997	947	895	842	792	742
<b>35</b>	1074	1044	999	942	885	830	774	709	650	592
<b>40</b>	636	619	600	597	615	646	614	552	497	439
<b>45</b>	176	198	240	276	285	287	350	345	336	315
<b>50</b>	152	156	164	173	184	202	216	230	235	233
<b>55</b>	137	139	143	149	154	162	169	171	173	175
<b>60</b>	123	123	122	120	120	123	124	126	128	130
<b>65</b>	96	94	88	86	85	85	86	87	89	92
<b>70</b>	56	54	52	52	53	53	53	54	56	59
<b>75</b>	27	26	29	28	28	28	28	28	30	32
<b>80</b>	17	18	17	17	16	16	15	15	15	15
<b>85</b>	10	11	11	11	11	10	10	9	9	8
<b>90</b>	4	4	4	4	4	4	4	4	4	4

Vert. 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>
<b>0</b>	1357	1357	1357	1357	1357	1357	1357	1357	1357
<b>5</b>	1307	1304	1302	1301	1299	1299	1298	1298	1299
<b>10</b>	1218	1207	1197	1188	1181	1175	1171	1169	1170
<b>15</b>	1108	1090	1073	1060	1050	1041	1036	1033	1034
<b>20</b>	989	960	936	914	897	884	875	869	870
<b>25</b>	851	816	783	756	733	716	704	694	694
<b>30</b>	697	657	620	587	560	537	520	510	509
<b>35</b>	538	491	456	428	406	391	380	372	369
<b>40</b>	397	355	334	325	319	315	311	307	306
<b>45</b>	300	289	280	272	266	262	258	255	254
<b>50</b>	234	230	225	221	217	213	211	209	208
<b>55</b>	177	176	177	176	174	172	170	169	169
<b>60</b>	132	133	134	135	135	134	133	132	132
<b>65</b>	94	96	98	99	99	100	99	99	100
<b>70</b>	61	65	68	67	68	70	70	72	76
<b>75</b>	34	36	39	40	40	42	42	42	42
<b>80</b>	15	16	17	18	19	19	20	20	20
<b>85</b>	8	8	7	7	6	6	6	6	6
<b>90</b>	3	3	3	2	2	2	2	2	1

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	444.44	N.A.	24.90
0-30	862.82	N.A.	48.40
0-40	1257.13	N.A.	70.50
0-60	1641.75	N.A.	92.10
0-80	1772.76	N.A.	99.40
0-90	1782.86	N.A.	100.00
10-90	1659.61	N.A.	93.10
20-40	812.69	N.A.	45.60
20-50	1048.3	N.A.	58.80
40-70	477.37	N.A.	26.80
60-80	131.00	N.A.	7.30
70-80	38.25	N.A.	2.10
80-90	10.11	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	1782.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	123.25
10-20	321.19
20-30	418.38
30-40	394.31
40-50	235.60
50-60	149.02
60-70	92.75
70-80	38.25
80-90	10.11
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

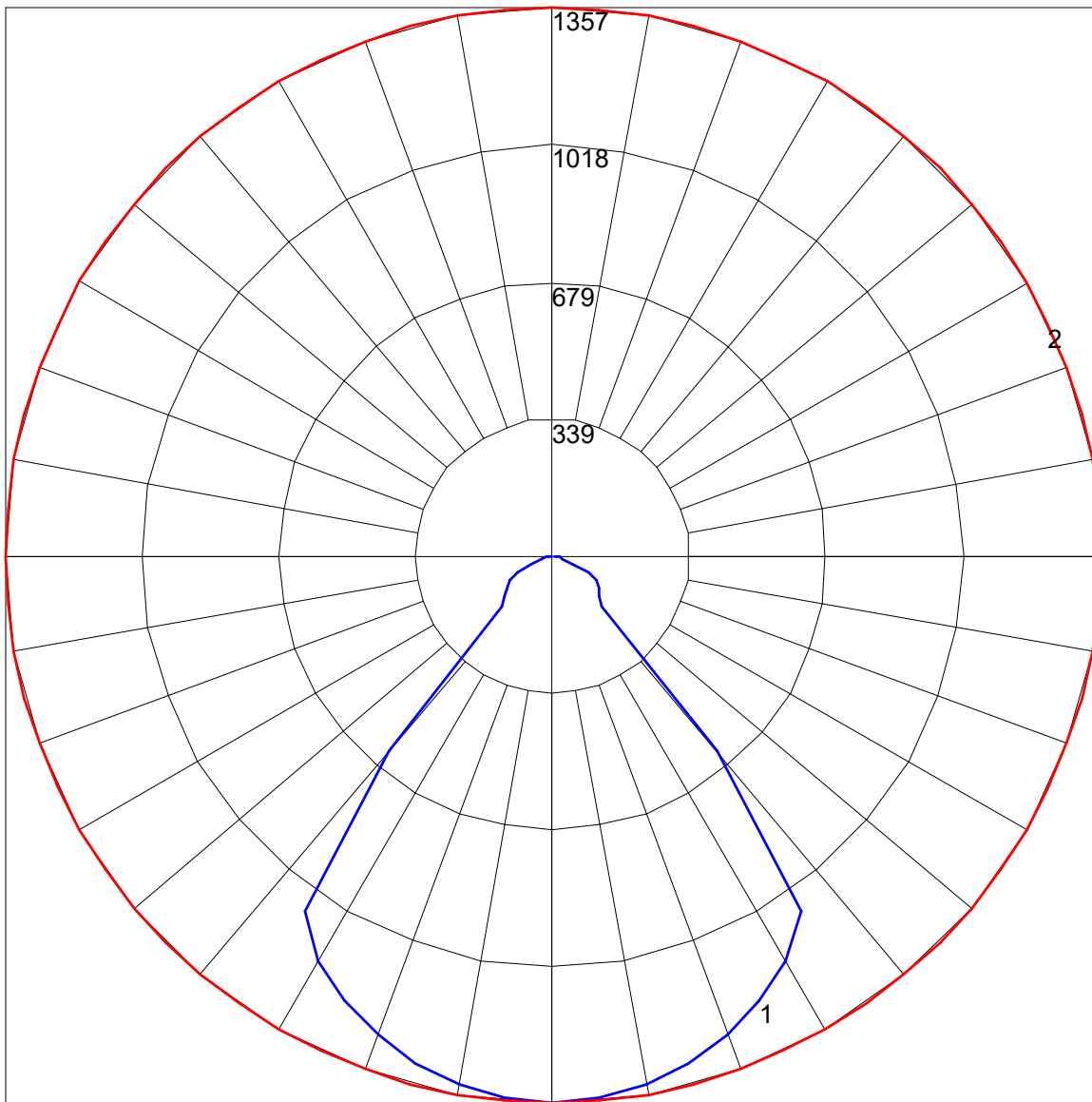
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	98	93	88	102	96	91	87	93	89	85	89	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	85	80	75	82	78	74	80	76	73	71
4	91	81	74	69	89	80	73	68	78	72	67	75	70	67	73	69	66	64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	40	48	43	39	38

POLAR GRAPH



Maximum Candela = 1357 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)