

## IES Report

# BoxRail® | 207 | 60° Symmetric, down | 90 CRI | SO

207-BX-XX-4-48-XX-XX-XX-X-X-Z-SO-359-S2-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	59	61	62	63
Total Lumens, 4' rail length (1219mm)	1484	1531	1562	1578
Lumens per foot (305mm)	371	383	391	394
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\_S2.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010908 (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-S2

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

[MORE] 60° symmetric 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	1562
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	25.26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.80
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.96
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	4048	7215	19847
55	2428	4234	14532
65	1515	2467	10393
75	749	1193	8265
85	139	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>	1142	1142	1142	1142	1142	1142	1142	1142	1142	1142
<b>5</b>	1116	1115	1115	1115	1115	1115	1116	1116	1117	1118
<b>10</b>	1038	1037	1038	1040	1043	1047	1052	1056	1060	1066
<b>15</b>	914	914	918	923	931	938	947	959	974	988
<b>20</b>	760	760	768	777	786	800	817	835	856	875
<b>25</b>	596	599	607	617	632	649	670	695	717	743
<b>30</b>	448	452	461	471	486	503	524	549	578	606
<b>35</b>	330	333	340	352	364	379	397	422	447	475
<b>40</b>	243	247	252	260	270	282	298	318	338	365
<b>45</b>	181	184	188	194	201	209	223	236	255	275
<b>50</b>	138	140	143	147	151	158	167	178	191	207
<b>55</b>	108	109	111	114	115	120	125	135	145	156
<b>60</b>	85	86	86	86	87	90	95	100	108	117
<b>65</b>	65	65	64	64	65	67	71	75	79	85
<b>70</b>	45	43	44	45	47	48	50	52	55	60
<b>75</b>	30	29	30	31	31	31	31	32	35	37
<b>80</b>	15	15	17	17	17	18	19	19	20	20
<b>85</b>	5	6	6	5	5	5	5	5	6	7
<b>90</b>	5	5	5	5	5	5	5	5	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>	1142	1142	1142	1142	1142	1142	1142	1142	1142
<b>5</b>	1120	1121	1123	1125	1127	1129	1131	1133	1136
<b>10</b>	1073	1081	1090	1092	1094	1097	1101	1105	1109
<b>15</b>	1000	1008	1019	1031	1045	1048	1051	1056	1062
<b>20</b>	894	913	935	947	962	979	982	986	993
<b>25</b>	771	796	819	845	861	877	890	894	904
<b>30</b>	636	667	697	721	748	763	782	785	795
<b>35</b>	507	538	569	598	622	642	659	666	673
<b>40</b>	390	417	445	474	499	523	536	544	548
<b>45</b>	298	321	344	368	391	408	416	422	427
<b>50</b>	224	245	265	284	303	316	326	334	339
<b>55</b>	170	183	198	213	228	239	247	253	256
<b>60</b>	127	136	148	158	168	177	184	187	189
<b>65</b>	92	100	108	115	122	128	133	136	137
<b>70</b>	65	71	76	82	86	90	93	95	96
<b>75</b>	41	44	49	53	56	58	62	65	69
<b>80</b>	21	23	25	27	29	31	32	32	33
<b>85</b>	7	7	8	9	10	10	11	12	12
<b>90</b>	4	3	3	3	2	2	2	2	1

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	380.60	N.A.	24.40
0-30	722.75	N.A.	46.30
0-40	1030.44	N.A.	66.00
0-60	1412.31	N.A.	90.40
0-80	1551.13	N.A.	99.30
0-90	1562.29	N.A.	100.00
10-90	1456.89	N.A.	93.30
20-40	649.84	N.A.	41.60
20-50	878.10	N.A.	56.20
40-70	475.16	N.A.	30.40
60-80	138.82	N.A.	8.90
70-80	45.53	N.A.	2.90
80-90	11.16	N.A.	0.70
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	1562.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	105.40
10-20	275.20
20-30	342.15
30-40	307.69
40-50	228.26
50-60	153.61
60-70	93.29
70-80	45.53
80-90	11.16
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

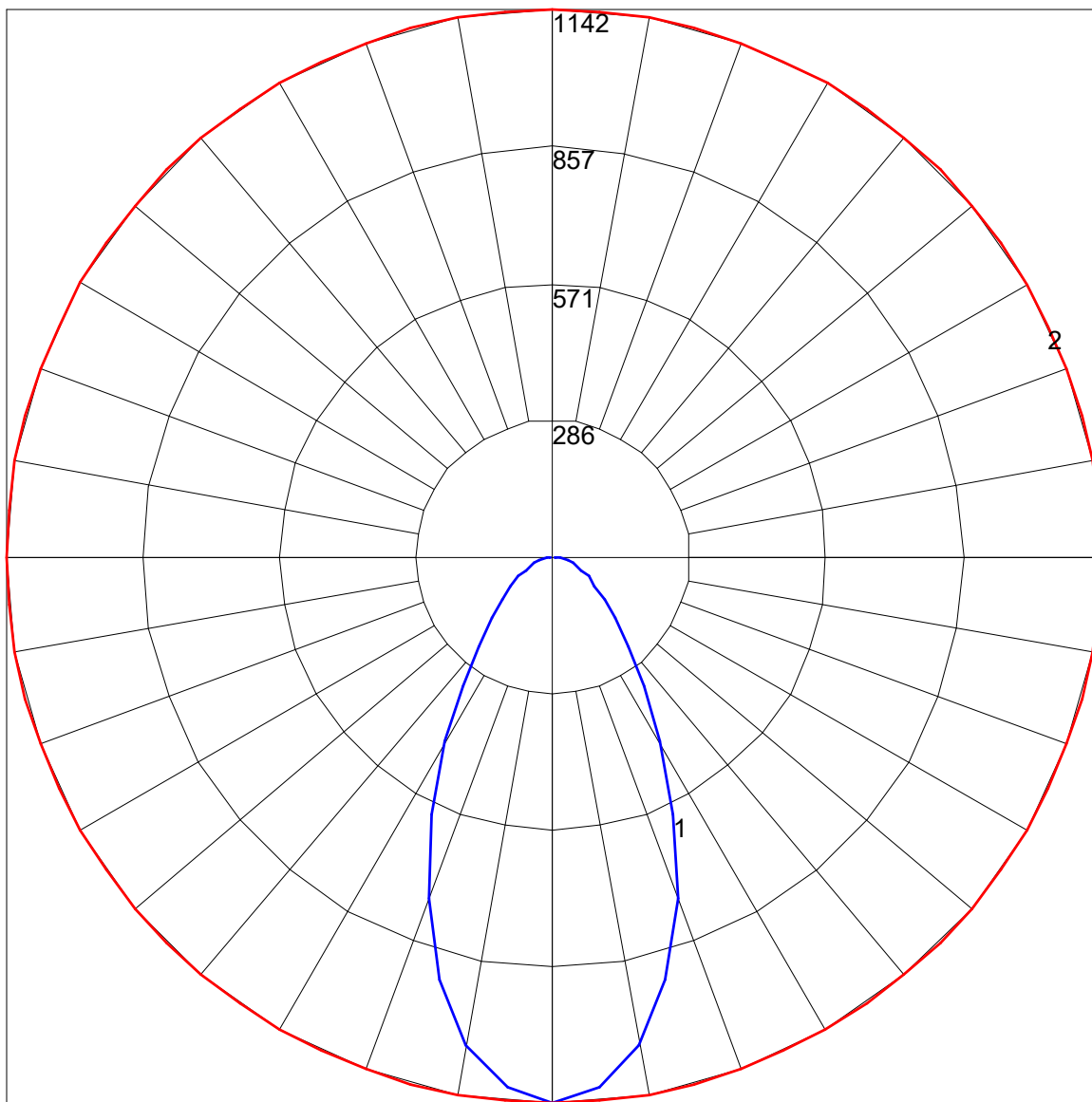
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	60	70	64	59	68	63	58	66	62	58	56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36

POLAR GRAPH



Maximum Candela = 1142 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.)