

IES Report

BoxRail® | 207 | Black Baffle, down | 90 CRI | SO

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	35	36	36	37
Total Lumens, 4' rail length (1219mm)	859	886	905	914
Lumens per foot (305mm)	215	222	226	228
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_BB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010905 (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-BB

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

[MORE] black baffle w/clear 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	905
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	36
Total Luminaire Watts	25.26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.82
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	537	1338	1162
55	450	434	624
65	350	232	303
75	225	193	240
85	223	188	307

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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>
<u>0</u>	1091	1091	1091	1091	1091	1091	1091	1091	1091	1091
<u>5</u>	1086	1077	1069	1061	1053	1046	1038	1032	1025	1020
<u>10</u>	1073	1056	1040	1024	1009	994	981	958	938	919
<u>15</u>	1051	1028	1006	984	959	923	889	857	827	799
<u>20</u>	1021	989	959	926	879	833	790	749	711	675
<u>25</u>	983	945	908	852	794	738	686	637	587	540
<u>30</u>	935	892	842	772	704	640	575	512	455	405
<u>35</u>	878	833	766	685	609	532	456	389	328	266
<u>40</u>	534	497	444	403	384	377	331	262	190	130
<u>45</u>	24	44	82	106	103	89	123	110	80	51
<u>50</u>	22	22	21	20	20	24	23	27	28	29
<u>55</u>	20	20	19	17	16	15	14	14	15	16
<u>60</u>	19	18	17	15	13	12	11	10	10	10
<u>65</u>	15	15	14	13	11	11	10	9	8	8
<u>70</u>	12	12	11	11	10	9	9	8	7	7
<u>75</u>	9	9	10	9	8	8	7	7	6	6
<u>80</u>	10	10	9	9	8	8	7	6	6	5
<u>85</u>	8	9	9	9	8	8	7	7	6	5
<u>90</u>	6	6	6	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>
<u>0</u>	1091	1091	1091	1091	1091	1091	1091	1091	1091
<u>5</u>	1015	1010	1006	1003	1001	999	998	998	998
<u>10</u>	903	888	875	863	854	847	842	839	839
<u>15</u>	774	751	731	715	702	691	683	678	679
<u>20</u>	640	607	578	555	537	523	512	504	503
<u>25</u>	498	460	426	398	376	358	345	336	334
<u>30</u>	357	312	271	234	204	179	161	150	150
<u>35</u>	207	153	125	103	86	72	60	53	50
<u>40</u>	99	66	51	47	43	40	38	36	35
<u>45</u>	48	41	36	33	30	28	26	25	25
<u>50</u>	29	27	25	23	21	19	18	17	17
<u>55</u>	17	17	16	15	14	13	12	11	11
<u>60</u>	11	11	11	10	9	8	8	7	7
<u>65</u>	8	7	7	7	6	6	5	5	4
<u>70</u>	6	6	5	5	5	4	4	3	3
<u>75</u>	5	5	4	4	4	3	3	2	2
<u>80</u>	5	4	4	3	3	3	2	2	1
<u>85</u>	5	4	4	3	2	2	2	1	1
<u>90</u>	3	3	3	2	2	2	2	1	1

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	326.06	N.A.	36.00
0-30	593.48	N.A.	65.60
0-40	803.09	N.A.	88.80
0-60	883.73	N.A.	97.70
0-80	899.17	N.A.	99.40
0-90	904.58	N.A.	100.00
10-90	809.14	N.A.	89.40
20-40	477.03	N.A.	52.70
20-50	543.18	N.A.	60.00
40-70	89.61	N.A.	9.90
60-80	15.43	N.A.	1.70
70-80	6.46	N.A.	0.70
80-90	5.41	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	904.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	95.44
10-20	230.62
20-30	267.42
30-40	209.61
40-50	66.14
50-60	14.49
60-70	8.97
70-80	6.46
80-90	5.41
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

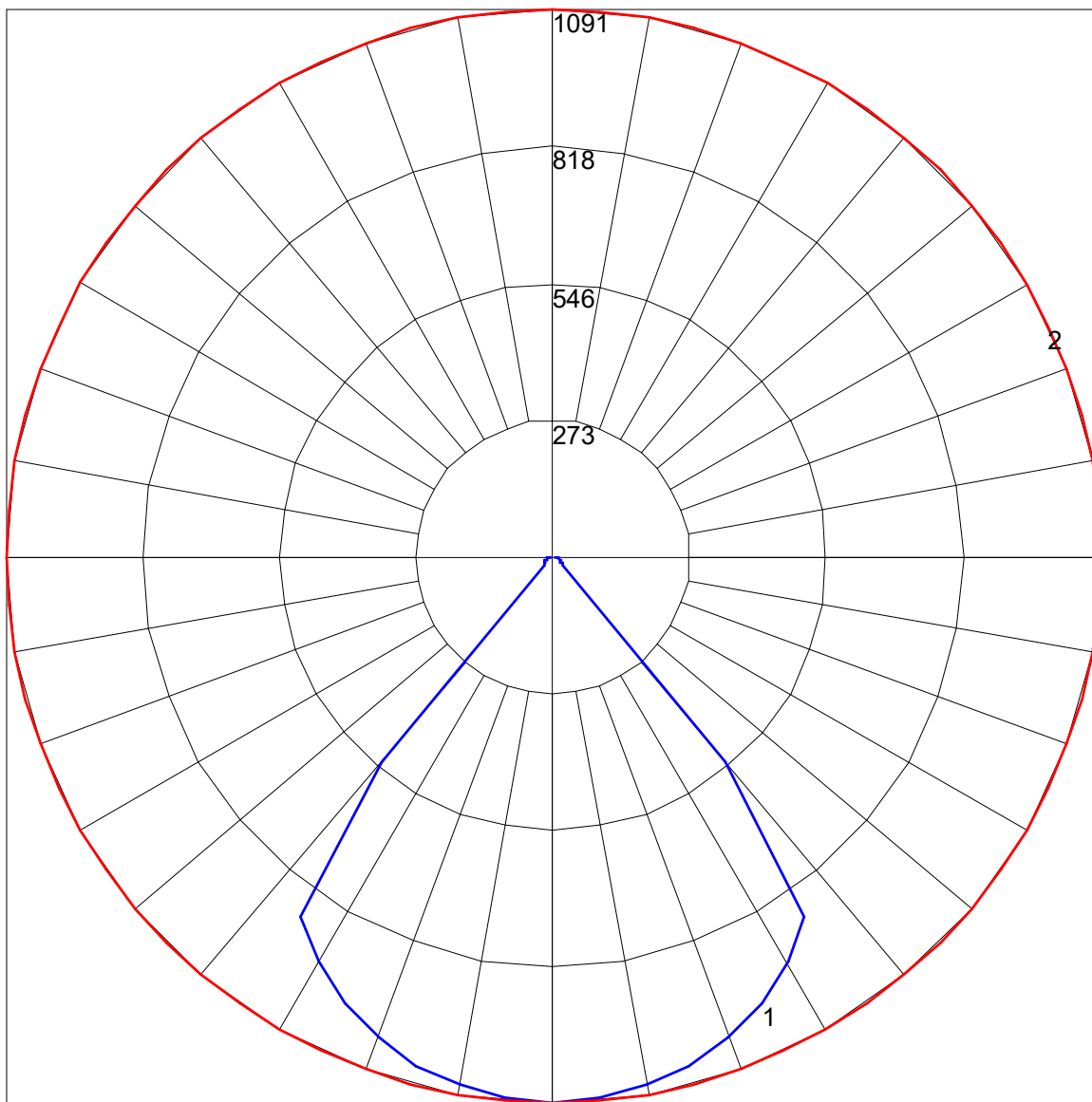
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	101	95	89	85	99	93	88	84	90	86	83	88	85	82	86	83	80	79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68
6	86	77	71	66	85	76	70	66	75	69	65	73	69	65	72	68	65	63
7	82	72	66	61	80	71	66	61	70	65	61	69	64	61	68	64	60	59
8	78	68	62	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55
9	74	64	58	54	73	63	58	54	62	57	53	62	57	53	61	56	53	52
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49

POLAR GRAPH



Maximum Candela = 1091 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.)