

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	30	31	32	32
Total Lumens, 4' rail length (1219mm)	430	443	452	457
Lumens per foot (305mm)	107	111	113	114
Input Power (W), 4' rail length (1219mm)	14.4	14.4	14.4	14.4
Watts per foot (305mm)	3.6	3.6	3.6	3.6
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_LO_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-LO-359-BB

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

[MORE] black baffle w/clear lens down, low 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	452
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	31
Total Luminaire Watts	14.38
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	268	669	581
55	225	217	312
65	175	116	152
75	112	97	120
85	111	94	153

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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	545.5	545.5	545.5	545.5	545.5	545.5	545.5	545.5	545.5	545.5
5	543.0	538.5	534.5	530.5	526.5	523.0	519.0	516.0	512.5	510.0
10	536.5	528.0	520.0	512.0	504.5	497.0	490.5	479.0	469.0	459.5
15	525.5	514.0	503.0	492.0	479.5	461.5	444.5	428.5	413.5	399.5
20	510.5	494.5	479.5	463.0	439.5	416.5	395.0	374.5	355.5	337.5
25	491.5	472.5	454.0	426.0	397.0	369.0	343.0	318.5	293.5	270.0
30	467.5	446.0	421.0	386.0	352.0	320.0	287.5	256.0	227.5	202.5
35	439.0	416.5	383.0	342.5	304.5	266.0	228.0	194.5	164.0	133.0
40	267.0	248.5	222.0	201.5	192.0	188.5	165.5	131.0	95.0	65.0
45	12.0	22.0	41.0	53.0	51.5	44.5	61.5	55.0	40.0	25.5
50	11.0	11.0	10.5	10.0	10.0	12.0	11.5	13.5	14.0	14.5
55	10.0	10.0	9.5	8.5	8.0	7.5	7.0	7.0	7.5	8.0
60	9.5	9.0	8.5	7.5	6.5	6.0	5.5	5.0	5.0	5.0
65	7.5	7.5	7.0	6.5	5.5	5.5	5.0	4.5	4.0	4.0
70	6.0	6.0	5.5	5.5	5.0	4.5	4.5	4.0	3.5	3.5
75	4.5	4.5	5.0	4.5	4.0	4.0	3.5	3.5	3.0	3.0
80	5.0	5.0	4.5	4.5	4.0	4.0	3.5	3.0	3.0	2.5
85	4.0	4.5	4.5	4.5	4.0	4.0	3.5	3.5	3.0	2.5
90	3.0	3.0	3.0	2.5	2.5	2.5	2.5	2.5	2.0	2.0

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>
0	545.5	545.5	545.5	545.5	545.5	545.5	545.5	545.5	545.5
5	507.5	505.0	503.0	501.5	500.5	499.5	499.0	499.0	499.0
10	451.5	444.0	437.5	431.5	427.0	423.5	421.0	419.5	419.5
15	387.0	375.5	365.5	357.5	351.0	345.5	341.5	339.0	339.5
20	320.0	303.5	289.0	277.5	268.5	261.5	256.0	252.0	251.5
25	249.0	230.0	213.0	199.0	188.0	179.0	172.5	168.0	167.0
30	178.5	156.0	135.5	117.0	102.0	89.5	80.5	75.0	75.0
35	103.5	76.5	62.5	51.5	43.0	36.0	30.0	26.5	25.0
40	49.5	33.0	25.5	23.5	21.5	20.0	19.0	18.0	17.5
45	24.0	20.5	18.0	16.5	15.0	14.0	13.0	12.5	12.5
50	14.5	13.5	12.5	11.5	10.5	9.5	9.0	8.5	8.5
55	8.5	8.5	8.0	7.5	7.0	6.5	6.0	5.5	5.5
60	5.5	5.5	5.5	5.0	4.5	4.0	4.0	3.5	3.5
65	4.0	3.5	3.5	3.5	3.0	3.0	2.5	2.5	2.0
70	3.0	3.0	2.5	2.5	2.5	2.0	2.0	1.5	1.5
75	2.5	2.5	2.0	2.0	2.0	1.5	1.5	1.0	1.0
80	2.5	2.0	2.0	1.5	1.5	1.5	1.0	1.0	0.5
85	2.5	2.0	2.0	1.5	1.0	1.0	1.0	0.5	0.5
90	1.5	1.5	1.5	1.0	1.0	1.0	1.0	0.5	0.5

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	163.03	N.A.	36.00
0-30	296.74	N.A.	65.60
0-40	401.55	N.A.	88.80
0-60	441.87	N.A.	97.70
0-80	449.58	N.A.	99.40
0-90	452.29	N.A.	100.00
10-90	404.57	N.A.	89.40
20-40	238.52	N.A.	52.70
20-50	271.59	N.A.	60.00
40-70	44.81	N.A.	9.90
60-80	7.72	N.A.	1.70
70-80	3.23	N.A.	0.70
80-90	2.70	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	452.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.72
10-20	115.31
20-30	133.71
30-40	104.81
40-50	33.07
50-60	7.25
60-70	4.49
70-80	3.23
80-90	2.70
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

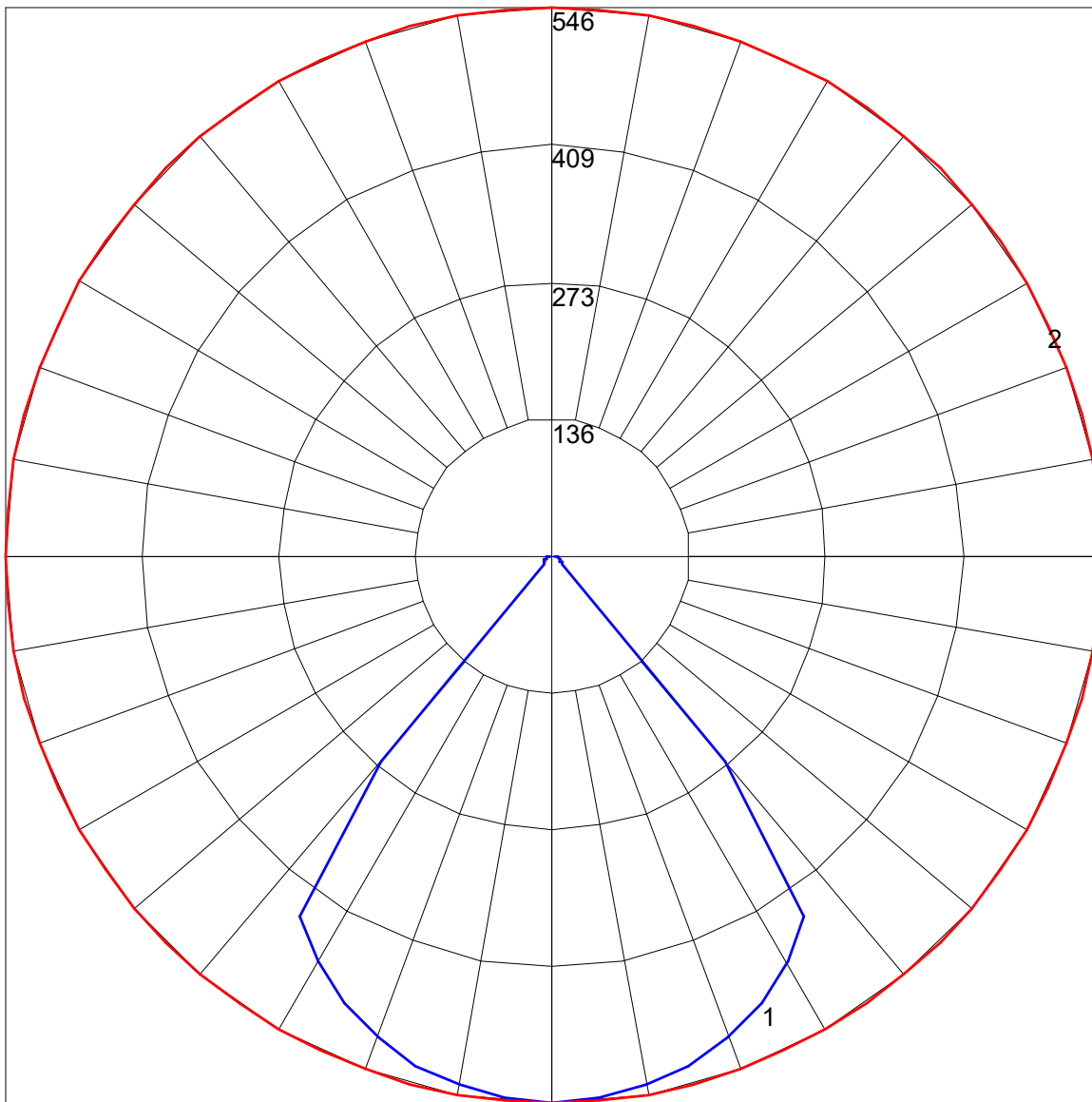
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	108	105	103	104	102	100	100	99	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	85	91	87	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	76	83	79	76	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	66	73	69	65	72	68	65	63
7	82	72	66	62	80	72	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	57	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 = 545.5 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.)