

IES Report

BoxRail® | 207 | 40° Symmetric, down | 90 CRI | LO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-359-S1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	40	41	42	43
Total Lumens, 4' rail length (1219mm)	571	589	601	607
Lumens per foot (305mm)	143	147	150	152
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_S1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010907 (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-S1

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

[MORE] 40° symmetric 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	601
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	42
Total Luminaire Watts	14.38
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.68
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.86
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	1308	2348	8645
55	854	1425	5904
65	559	871	4210
75	300	435	2875
85	83	113	1534

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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	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0
5	488.0	487.5	487.5	487.5	488.0	488.0	488.5	489.5	490.0	491.0
10	434.0	433.5	434.5	436.0	438.5	441.5	445.5	448.5	452.5	457.5
15	355.5	355.5	358.0	362.0	367.0	372.5	379.5	388.0	398.0	408.5
20	271.5	271.5	275.5	281.0	287.5	296.0	306.5	318.0	331.0	344.5
25	197.0	198.0	201.5	207.0	214.0	223.5	234.0	246.0	261.0	278.0
30	141.0	142.0	145.0	149.5	156.0	163.5	172.0	184.0	199.5	214.5
35	101.5	102.0	104.5	108.5	113.5	119.5	126.0	137.0	148.5	162.0
40	75.5	76.0	78.0	80.5	84.0	87.5	94.0	101.5	109.5	121.0
45	58.5	59.0	60.0	62.0	64.0	66.5	71.0	75.5	82.5	89.5
50	47.0	47.0	48.0	49.0	50.0	52.0	54.5	58.0	62.5	68.5
55	38.0	38.5	38.5	39.5	40.0	41.0	42.5	45.5	48.5	52.5
60	31.0	31.0	31.0	31.0	31.0	32.0	33.5	35.0	37.0	40.0
65	24.0	24.5	24.0	23.5	24.0	24.5	25.5	26.5	28.0	30.0
70	17.5	16.5	17.0	17.5	17.5	18.0	19.0	19.5	20.5	21.5
75	12.0	11.5	12.0	12.0	11.5	12.0	12.0	12.0	13.0	13.5
80	7.5	7.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
85	3.0	3.0	3.0	3.0	2.5	3.0	2.5	2.5	3.0	3.0
90	3.0	3.0	2.5	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	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0
5	492.0	493.0	494.5	495.5	497.0	498.5	500.0	501.5	503.0
10	463.0	469.0	475.5	477.5	479.5	482.0	485.0	488.0	491.5
15	418.0	426.0	434.5	444.0	455.0	458.5	462.0	466.0	471.0
20	359.0	373.5	389.0	400.0	412.0	426.0	430.0	434.5	440.5
25	296.0	313.5	331.0	349.5	363.5	377.5	388.0	392.5	399.0
30	232.5	252.5	271.5	291.0	310.5	324.0	339.0	343.0	349.5
35	177.5	194.0	214.0	233.0	252.0	268.0	282.0	288.5	293.5
40	133.5	149.0	164.5	181.0	197.0	211.0	224.0	232.0	236.5
45	100.5	112.0	125.0	139.0	153.0	165.5	176.0	182.5	186.0
50	75.5	84.0	94.0	104.5	115.5	125.0	133.0	138.5	140.5
55	57.5	63.5	70.0	78.0	86.0	93.0	99.0	103.0	104.0
60	43.5	47.5	52.5	58.0	63.5	68.5	73.5	76.0	77.0
65	32.5	35.5	39.0	42.5	46.0	49.5	52.0	54.0	55.5
70	23.0	25.5	27.5	30.0	32.5	36.0	37.5	37.5	38.5
75	15.0	16.0	18.0	19.0	21.0	22.5	23.0	24.0	24.0
80	8.0	8.5	9.5	10.0	11.0	12.0	12.5	13.0	13.0
85	3.0	3.0	3.5	3.5	4.0	4.0	4.0	4.5	5.0
90	2.0	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	160.07	N.A.	26.60
0-30	292.30	N.A.	48.60
0-40	405.45	N.A.	67.50
0-60	544.19	N.A.	90.60
0-80	596.16	N.A.	99.20
0-90	600.91	N.A.	100.00
10-90	554.91	N.A.	92.30
20-40	245.38	N.A.	40.80
20-50	328.20	N.A.	54.60
40-70	173.45	N.A.	28.90
60-80	51.97	N.A.	8.60
70-80	17.26	N.A.	2.90
80-90	4.75	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	600.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.00
10-20	114.06
20-30	132.24
30-40	113.15
40-50	82.82
50-60	55.92
60-70	34.71
70-80	17.26
80-90	4.75
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

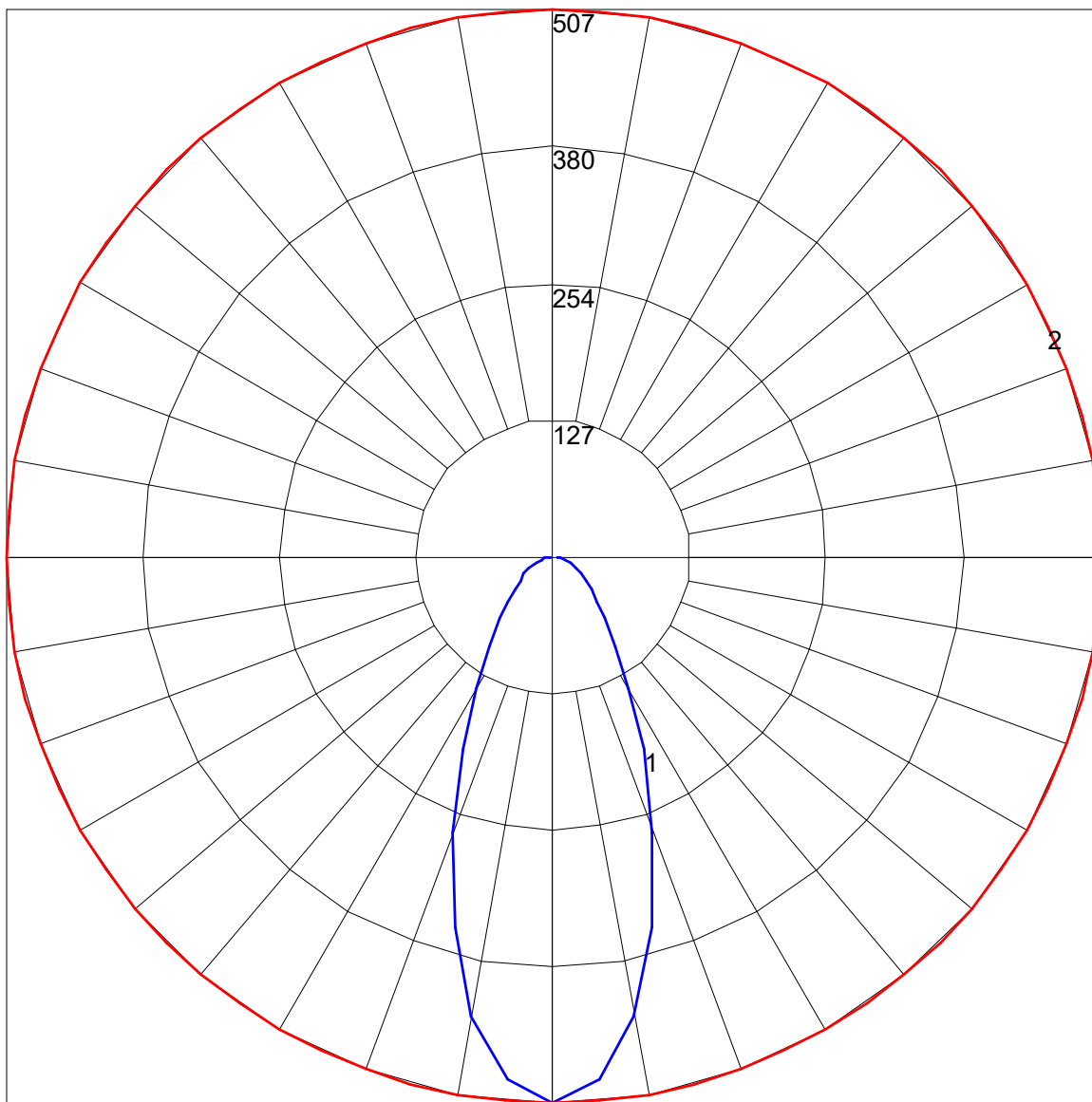
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41
10	63	51	44	40	61	51	44	40	50	44	40	49	43	39	48	43	39	38

POLAR GRAPH



Maximum Candela = 507 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.)